FIGURE 1A

20CAGHA

127CAGHA

FIGURE 1B

20QHAMGGPPSTPQ₂₀TSRTYPYDVPDYA

127QHA MGGPPSTPQ₁₂₇TSRTYPYDVPDYA

Figure 1. A) DNA sequences of 20QHA and 127QHA and B) their predicted protein sequences. The protein-coding region is underlined. The Kozak sequence is in italic.

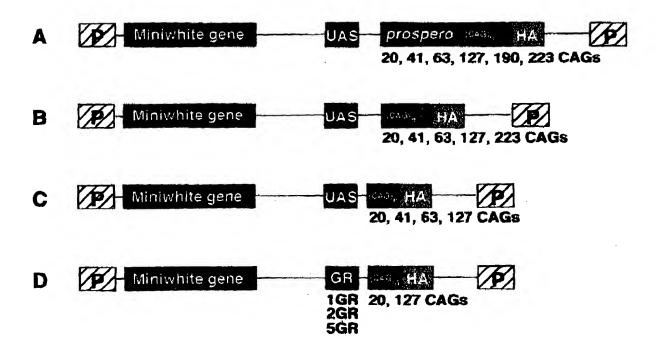


Figure 1. P-element plasmid constructs for production of transgenic flies. Each construct has two P-elements for chromosomal insertion. To facilitate identification of transformed flies, a miniwhite gene is included to produce red pigmentation in the eye. A) Plasmids carrying the full-length cDNA encoding the fly PROSPERO with various CAG repeat sizes. The expression of PROSPERO is regulated by five tandem upstream activating sequences (UAS). The yeast transcription factor GALA activates the transcription from these UAS elements. At its 3'-end, prospero cDNA is joined, in-frame, to a short DNA sequence that codes for a heterologous epitope, hemeagglutinin (HA). Antibodies against HA will be used to label the protein in immunohistochemical assays and Western blots. B) Plasmids carrying a partial cDNA encoding 422 amino acids of the C-terminal end of PROSPERO with various CAG repeat sizes. C) Plasmids carrying a DNA sequence that only encodes polyglutamines of various sizes. D) Plasmids carrying a DNA sequence that only encodes polyglutamines of various sizes, expressed under the control of one, two or five GLASS response elements (1GR, 2GR, or 5GR). The eye-specific protein GLASS activates the expression of polyglutamines from the GLASS response elements.

Generation of the P-element insertion and screening for modifiers

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M P[Δ2-3]/P[Δ2-3] X F EP55/EP55

M EP55/Y;; P[Δ2-3]/+ X F w/w

M w/Y;pEP/+;+ or w/Y;+;pEP/+ X F w;GMR/CyO;127Q/127Q

Progeny screened for eye phenotype

Isolation of the new P-element insertion (pEP = suppressor or enhancer)

M (GMR;127Q)/pEP X F (CyO;TM3)/Xa

M GMR/CyO;pEP/TM3 X F w1118

M GMR;TM3 or CyO;pEP X F w;GMR/CyO;127Q/127Q to test

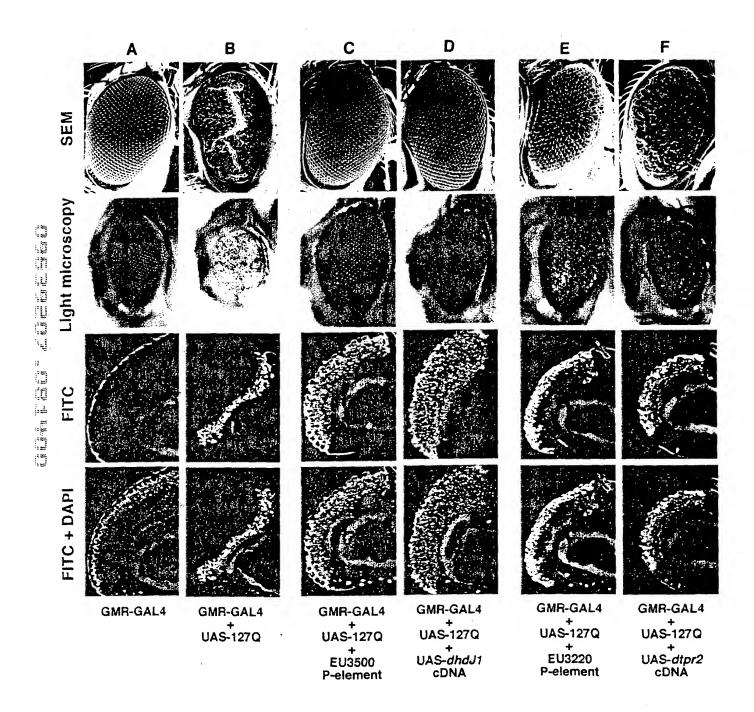
X F (CyO;TM3)/Xa to establish line

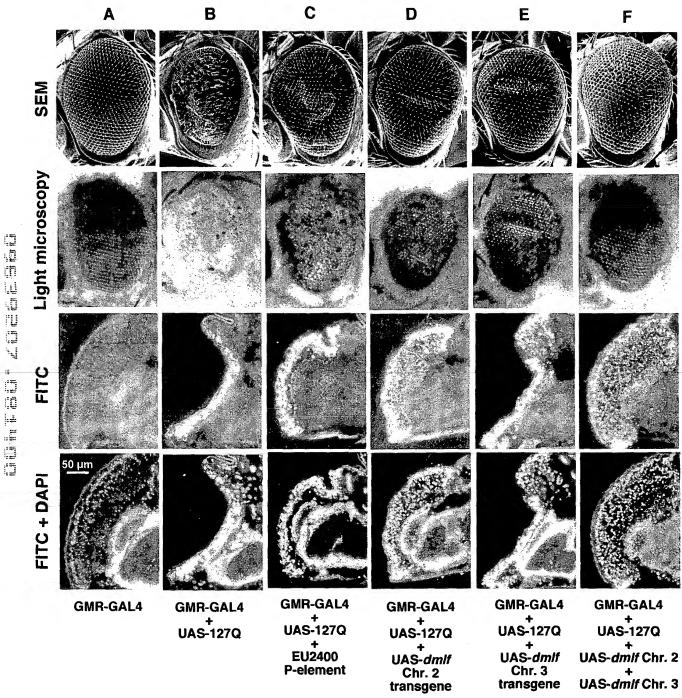
M +/CyO;pEP/TM3 X F +/CyO;pEP/TM3

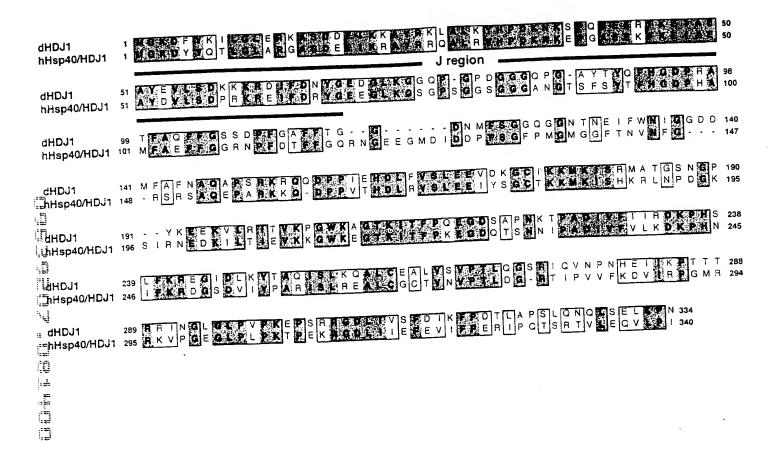
M +/CyO;pEP/TM3 X F +/CyO;pEP/TM3

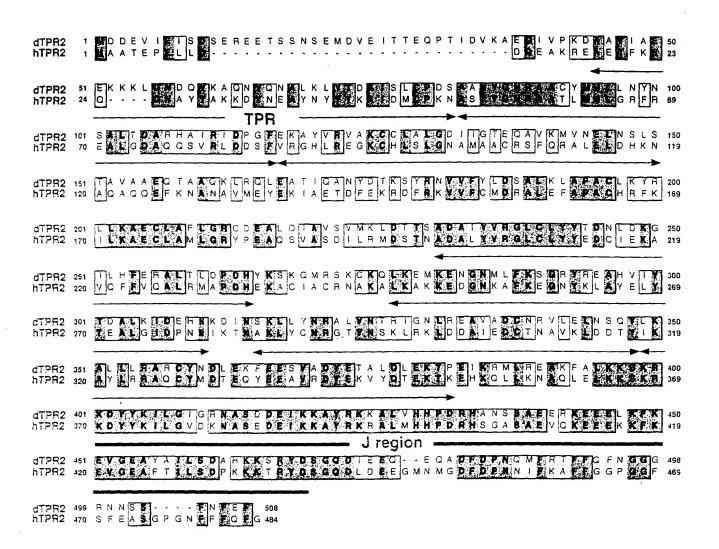
pEP/TM3 or pEP/pEP established lines
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Genetic scheme used for generating P-element mutants, screening for modifiers of polyglutamine toxicity, and isolating a hypothetical modifier P-element insertion on chromosome 3. Homozygous EP55 virgin females were crossed with males homozygous for a defective transposon, expressing the transposase. The F1 male progeny were crossed with virgin w1118 females. The F2 Male progeny that had coloured eyes and lacked the transposon's genetic markers were selected, as they contain a new stable insertion on an autosomal chromosome. These males were crossed with flies heterozygous for GMR-GAL4 on chromosome 2, balanced by CyO chromosome, and homozygous for UAS-1270 on chromosome 3. The resulting F3 progeny were screened for eye phenotype. Once a modifier was found, a single male was crossed to female (CyO;TM3)/Xa. The resulting male progeny were crossed to w1118 flies to separate the P-elements. This resulted in colored-eye progeny that carry a balancer for one chromosome and a Pelement on another. Males from such progeny were tested for modifier activity by crossing to female w; GMR/CyO;127Q/127Q. The lines were established by crossing the latter males to (CyO;TM3)/Xa, and by crossing the resulting flies carrying CyO and TM3 balancers. EP55: source of transposable P-element; $P[\Delta 2-3]$: source of transposase; F: female; M: male; CyO: balancer chromosome 2; TM3: balancer chromosome 3. Xa: translocation (2;3) Xa. (Chromosome 4 is omitted.)









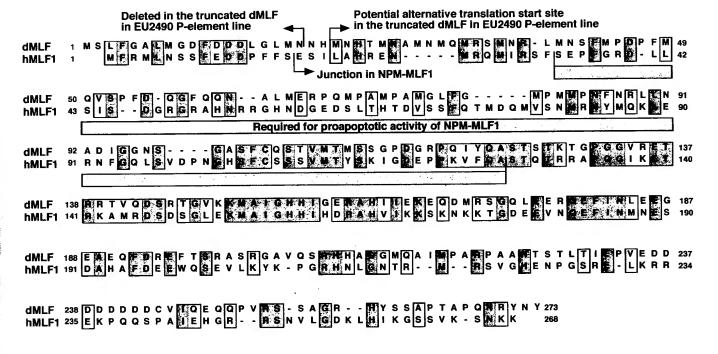


FIGURE 9A

dTPR2 Protein 508 amino acids

MDDEVIEISDSEREETSSNSEMDVEITTEQPTIDVKAEQIVPKDAATIAEEKKKLG NDQYKAQNYQNALKLYTDAISLCPDSAAYYGNRAACYMMLLNYNSALTDARH AIRIDPGFEKAYVRVAKCCLALGDIIGTEQAVKMVNELNSLSTAVAAEQTAAQK LRQLEATIQANYDTKSYRNVVFYLDSALKLAPACLKYRLLKAECLAFLGRCDEA LDIAVSVMKLDTTSADAIYVRGLCLYYTDNLDKGILHFERALTLDPDHYKSKQM RSKCKQLKEMKENGNMLFKSGRYREAHVIYTDALKIDEHNKDINSKLLYNRALV NTRIGNLREAVADCNRVLELNSQYLKALLLRARCYNDLEKFEESVADYETALQL EKTPEIKRMLREAKFALKKSKRKDYYKILGIGRNASDDEIKKAYRKKALVHHPD RHANSSAEERKEEELKFKEVGEAYAILSDAHKKSRYDSGQDIEEQEQADFDPNQ MFRTFFQFNGGGRNNSSFNFEF

FIGURE 9B

dTPR2 cDNA 2239 base pairs

GGCACGAGCCACTACTTCGCATGGCACGCTTTTTTCCGTGTGCTCGGTTCGTT CGGCCATACAAAACACAAAATTCAAGTTTAAAAACTAAATAGGCAACTAAAA GGGAAGCCGCAGCGAATAAAGTGATTTGCTGAAAGAGACGTAAGAAAGTTA ATCGCATCGAAGGCACCAGAAATCGGGGATTTCTAACACGGCGCGCGTGCGA CGTACATACATACGCAAGCGCACACACACACGAACAATTACTTGCCATTGAC GCAAAAGCGAAAAAGCAGTGGAATAAAGGGGAATTGACAAATAACAACGTT TTGCAAGCACTGGACTCTGGTCGCTGGTGTTCTTTCATTTTGTAATTGCCACG CATGGACGACGAGTAATTGAAATTAGCGACAGCGAACGCGAAGAAACCTC ATCGAACTCCGAAATGGATGTGGAAATAACGACAGAACAGCCAACCATCGAT GTCAAAGCAGAGCAAATTGTGCCCAAGGACGCGGCAACCATTGCCGAGGAG AAGAAGAACTGGGCAACGACCAATACAAGGCGCAGAACTATCAGAATGCA CTCAAGCTCTACACGGATGCCATATCGCTGTGTCCGGACTCGGCGGCATACTA TGGCAATCGGGCCGCCTGCTACATGATGCTGCTCAACTATAATAGCGCCCTG ACCGACGCCGACACGCCATACGCATCGATCCGGGCTTCGAGAAGGCCTACG TCCGTGTGGCCAAGTGCTGTCTGGCCCTGGGCGACATTATTGGCACCGAACA GGCCGTCAAAATGGTCAACGAGCTGAATTCGCTTAGCACGGCTGTTGCTGCC GAACAGACGCCGCCAAAAGTTGCGCCAATTGGAGGCCACCATTCAGGCG AACTACGATACGAAATCCTATCGCAATGTGGTCTTCTATTTGGATAGTGCCTT GAAATTGGCGCCCGCCTGTTTGAAATATCGTCTACTCAAGGCTGAGTGCCTTG CATTTTTGGGGCGATGTGATGAGGCCTTGGACATTGCGGTCAGTGTAATGAA ACTGGATACCACATCGGCGGATGCGATATACGTGAGAGGTCTGTGCCTGTAC TACACGGACAACCTGGACAAGGGAATTCTTCATTTCGAGCGCGCCCTGACCC TCGACCCGGACCACTACAAGTCCAAGCAGATGCGCAGCAAATGCAAGCAGCT CAAGGAGATGAAGGAGAACGGCAATATGCTATTCAAGTCGGGTCGGTATCGC GAGGCACACGTTATCTACACGGACGCCCTGAAGATCGATGAACACAACAAGG ATATCAATTCGAAATTGCTTTACAATCGGGCTTTGGTCAACACGCGTATTGGC AATTTGCGAGAGGCCGTGGCCGATTGCAATCGAGTGCTGGAGCTGAATAGTC AGTATCTGAAGGCTCTGTTGCTGCGAGCGCGCTGCTACAATGATCTGGAGAA GTTCGAGGAGTCGGTGGCGGACTATGAGACGCGCTGCAGCTGGAGAAGAC GCCGGAGATTAAGCGAATGCTGCGCGAGGCCAAGTTTGCGTTGAAGAAGTCG AAGCGAAAGGACTACTACAAGATCCTGGGCATTGGACGCAATGCGTCCGACG ACGAGATCAAGAAGGCGTATCGCAAAAAGGCGCTGGTACATCATCCGGATCG

FIGURE 10A

dMLF Protein 273 amino acids
MSLFGALMGDFDDDLGLMNNHMNHTMNAMNMQMRSMNRLMNSFMPDPFMQ
VSPFDQGFQQNALMERPQMPAMPAMGLFGMPMMPNFNRLLNADIGGNSGASF
CQSTVMTMSSGPDGRPQIYQASTSTKTGPGGVRETRRTVQDSRTGVKKMAIGHH
IGERAHIIEKEQDMRSGQLEERQEFINLEEGEAEQFDREFTSRASRGAVQSRHHAG
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ONRYNY

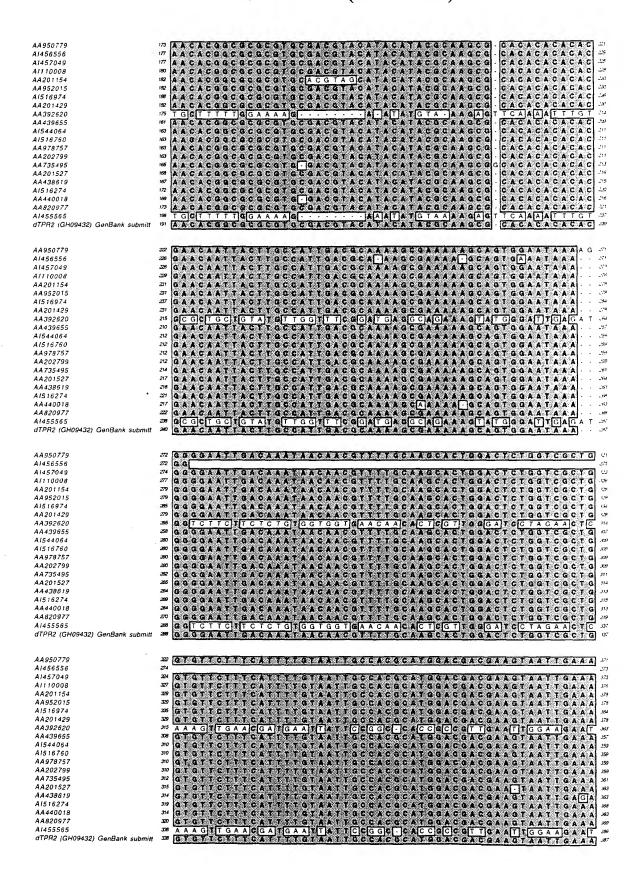
FIGURE 10B

dMLF cDNA 1753 base pairs GGCACGAGGAAAATATTCGTGAAAATTCTGCATACGGAAAGAAGAAAATTC GAGCAACAGAAAGCCAACACAATCCACAAAAATGTCTTTATTCGGAGCGTTG ATGGGTGATTTCGACGACGATCTCGGCCTTATGAACAACCACATGAACCACA CTATGAACGCGATGAACATGCAGATGCGCTCGATGAATCGCCTGATGAACAG CTTTATGCCCGATCCCTTCATGCAGGTCTCGCCCTTTGACCAGGGATTCCAGC CTTCGGCATGCCCATGATGCCAAACTTTAATCGCCTGTTGAACGCTGATATTG GTGGCAATTCAGGCGCATCCTTCTGCCAGAGCACCGTGATGACCATGTCATC GGGTCCCGATGGGCGTCCTCAGATCTACCAGGCCAGCACTAGTACCAAAACA GGACCGGGAGGCGTTCGTGAGACCCGCAGGACGGTGCAGGACTCGCGCACT GGGGTGAAGAAGATGGCCATTGGTCATCACATCGGCGAGCGGGCACACATTA TTGAGAAAGAGCAGGACATGCGCTCAGGACAACTGGAGGAGCGCCAGGAGT TCATTAATCTGGAGGAGGAGAAGCCGAGCAGTTTGACAGGGAGTTTACATC GCGCGCTAGTCGCGGAGCGGTGCAGTCAAGACATCATGCTGGTGGCATGCAG GCCATCATGCCCGCCCGTCCAGCGCACACACCTCGACGTTGACCATTGAGC CAGTGGAGGACGACGACGATGATGACTGTGTAATCCAGGAGCAGC AACCGGTTCGCTCCGCGGGCCGCCATTATTCCAGTGCGCCAACGGCACC GCAGAACAGATATAATTACTAAATCTAAAGTCAATACAGTATATTTTACTAA CTATCCGATAAAACAGAACAGAATTGCATACTATAAATTTCTGCTAATTAC ACAGAGCAGCATACATCCACATCCCTATGCCGCCAATCCGAGGCGCCAACAA CGTGCCGTAAAACATTTTCACACGGAGGACGAAGCGGCCAGCTCCTACAAGG CGGTCAAGCGCGGCAAGAAGAAGTAGTAGAAACGTGATCATCTGTATGCCAA CATCTTCCGCATCGCACACTCAAAAACACTAGGAAGCAAAGCGTTGGGTTCT CCAGTTCTGTCTTATCCTGCGTGAGTCGACCAGAATGCAACACTAAAAAATGT ACAACTTCAAGATGCTATTGATGTGCACGCAGGATACAGAACAACTTGCTTA AATTTACTTAAAACAAATGTGACTATTCAACGCCGAAATCATTACAACACAC TCGTAATTATAAGTTTGAATTATTTGATTAATTCTCAAGTTTTTAGATTTTGTT AGCCACTAAGCTTTAAATTATGGATGCCAGTTAGCGTGCAAATGAACACAAT TGATTTGAAGGCTCCGAACGATAGAAAACAACAATTACCAATTCCCCAAATA ATTACATTATAATAGTAAAAAAAAAAAAAAAAAAA

FIGURE 11A

ClustalW Formatted Alignments

AA950779	' GCATGGCACCCCCTTTCCCGCTCGGTTCCC
A1456556	CTTCGCATGGGAGGCTTTTTTCCGTGTGCTCGGTTC
A1457049	
Al110008	CTACTTCGCATGCACGCTTTTTTCCGTGTGCTCGGTTC[#
AA201154	ACTACTTCGC AT G QCACQCTTTTTTCCQTGTGCCGGTTC -20
AA952015	CACTACTTCGCATGGCACGCTTTTTTCCGTGTGCTCGGTTC
AI516974	T T C C A C C A C T A C T T C G C A T G G C A C G C T T T T T C C G T G T G C T G G G T T C #
AA201429	AACTACTTCGCATGCCACGCTTTTTTCCGTGTGCTCGGTTC
AA392620	TTTAACACAAATCTCC-CATGATTAATTA
AA439655	TITT CCAT GT CCGTT CI
A1544064	
AI516760	CTTTTTCCGTGTGCTCGGTTC
AA978757	' CTTTTTCCQTGTGCCGGTTC 2
AA202799	ctttttccgtgtactcagttcl=
AA 735495	ACGETTITITE CATALCACTIC S
AA201527	
	CACGCTTTTTCCGTGTGCTCGGTTCC
AA438619	' GAGGOTTTTTTCCQTGTCCGGTTCI-
AI516274	CATGECACCETTITTECOTATACTCAGTTC
AA440018	GCACGCTTTTTTCCGTGTGCTCGGTTC
AA820977	
	GCATGGCACGCTTTTTCCGTGCTCGGTTC
A1455565	A TATGTATATTCTGTTTTATTTAACACAAATCTCCCCCCCATGATTTTATTA
dTPR2 (GH09432) GenBank submitt	' G G C A C G A G C C A C T A C T T C G C A T G G C A C G C T T T T T T C C G T G T G C T C G G T T C C
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AA950779	GTTCGGCCATACAAAACACAAAATTCAA.GTTTAAAAACTAAATAGG
A1456556	FOTT COUCCATACAAACA CAARATTCAA GTTTAAAAACTAAATAGG
A1457049	
AI110008	
AA201154	- " GTTCGGCGATACAAAACA] GAAAATTCAA] - GTTTAAAAACTAAATAGG -
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AI516974	# GTTCGGCCATACAAACA CAAAATTCAA GTTTAAAAACTAAATGGGG
AA201429	The state of the s
AA392620	The state of the s
AA439655	TOTT COUCET A CAAAA CA CAAATTO AA - ETTTAAAAACTAA TAGG
A1544064	TOTTOGGCONTACANAGA CANANTTONA GTTTANANACTANTAGG
A1516760	
AA978757	
AA202799	- GTTCGGCCATACAAACA CAAAATTCAA GTTTAAAAACTAAATAGG
AA735495	BITTCGGCCATACAAAACA CAAAATTCAA BITTTAAAAAACTAAATAGG
AA201527	
AA438619	
	I - I
A1516274	P GTT C G G C CATA CAAAA CA CAAAATT CAA GTTT AAAAA C T AAATA G G 7
AA440018	# GITCGGCCATACAAAACA CAAAATTCAA GTTTAAAAAACTAAATAGG
AA820977	B GTTCGGCCATACAAAACA CAAAATTCAA GTTTAAAAACTAAATAGG
A1455565	
dTPR2 (GH09432) GenBank submitt	
	STORGECATACAAAGA GAAATTCAA GITTTAAAAACTAAATAGG +
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AA950779	" CAACTAAAAGGGAAGCCGCAGCGA ATAAAGTGATTTGCTGAAAG
AA950779 AI456556	CAACTAAAAGGGAAGCGCAGCGA.ATAAAGTGATTTGCTGAAAG
AA950779 Al456556 Al457049	" CAACTAAAAGGGAAGCCGCAGCGA ATAAAGTGATTTGCTGAAAG
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AA950779 AI456556 AI457049 AI110008 AA201154 AA952015 AI516974 AA201429 AA392620 AA439655 AI544664 AI516760 AA978757 AA202799	79 C A A C T A A A A G G G A A G C G C A G C
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AA950779 AI456556 AI457049 AI110008 AA201154 AA952015 AI516974 AA201429 AA392620 AA439655 AI544064 AI516760 AA978757 AA202799 AA735495	79 C A A C T A A A A G G G A A G C C C C A G C
AA950779 AI456556 AI457049 AI110008 AA201154 AA952015 AI516974 AA201429 AA392620 AA439655 AI544064 AI516760 AA978757 AA202799 AA735495 AA201527	79 C A A C T A A A A G G G A A G C G C A G C
AA950779 AI456556 AI457049 AI110008 AA201154 AA952015 AI516974 AA201429 AA392620 AA439655 AI516760 AA978757 AA202799 AA735495 AA201527 AA438619	79 C À A C T À A À À G G À À G C G C À G C
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AA950779 AI456556 AI457049 AI110008 AA201154 AA952015 AI516974 AA201429 AA392620 AA439655 AI516760 AA978757 AA202799 AA735495 AA201527 AA438619 AI516274 AA440018	79 C A A C T A A A A G G A A G C G C A G C
AA950779 AI456556 AI457049 AI110008 AA201154 AA952015 AI516974 AA201429 AA392620 AA439655 AI544064 AI516760 AA978757 AA202799 AA735495 AA201527 AA438619 AI516274	79 CAACTAAAAGGGAAGCCGCAGC
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AA950779 AI456556 AI457049 AI110008 AA201154 AA952015 AI516974 AA201429 AA399655 AI514064 AI516760 AA978757 AA202799 AA735495 AA201527 AA438619 AI516274 AA440018 AA820977 AI455565 dTPR2 (GH09432) GenBank submitt	79 C A A C T A A A A G G G A A G C G C A G C
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AA950779 AI456556 AI457049 AI110008 AA201154 AA952015 AI516974 AA201429 AA392620 AA439855 AI516760 AA978757 AA202799 AA735495 AA201527 AA438619 AI516274 AA440018 AA820977 AI455565 dTPR2 (GH09432) GenBank submitt AA950779 AI456556 AI457049	79 C A A C T A A A A G G G A A G C G C A G C
AA950779 AI456556 AI457049 AI110008 AA201154 AA952015 AI516974 AA201429 AA399655 AI544064 AI516760 AA978757 AA202799 AA735495 AA201527 AA438619 AI516274 AA440018 AA820977 AI455565 dTPR2 (GH09432) GenBank submitt AA950779 AI4565566 AI457049 AI110008	79 C A A C T A A A A G G G A A C C C C C A G C
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AA950779 AI456556 AI457049 AI110008 AA201154 AA952015 AI516974 AA201429 AA392620 AA439655 AI516760 AA978757 AA202799 AA735495 AA201527 AA438619 AI516274 AA440018 AA820977 AI455565 dTPR2 (GH09432) GenBank submitt AA950779 AI456556 AI577049 AI110008 AA201154 AA92015	79 C A A C T A A A A G G G A A G C G C A G C
AA950779 AI456556 AI457049 AI110008 AA201154 AA952015 AI516974 AA201429 AA392620 AA439655 AI54064 AI516760 AA978757 AA202799 AA735495 AA201527 AA438619 AI516274 AA440018 AA92077 AI455565 dTPR2 (GH09432) GenBank submitt AA950779 AI456556 AI457049 AI110008 AA201154 AA952015 AI45674	79 C A A C T A A A A G G G A A G C C C C A G C
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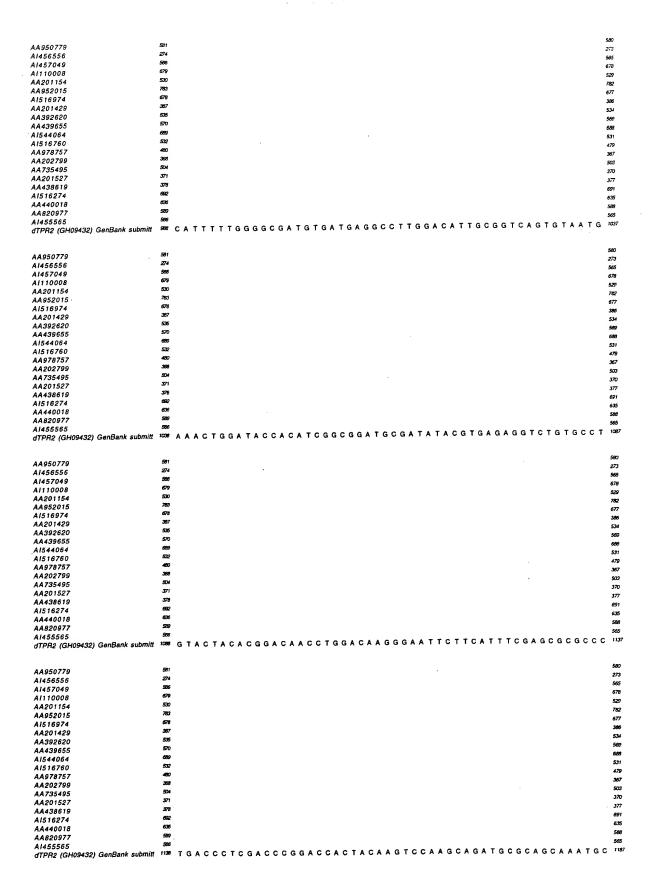


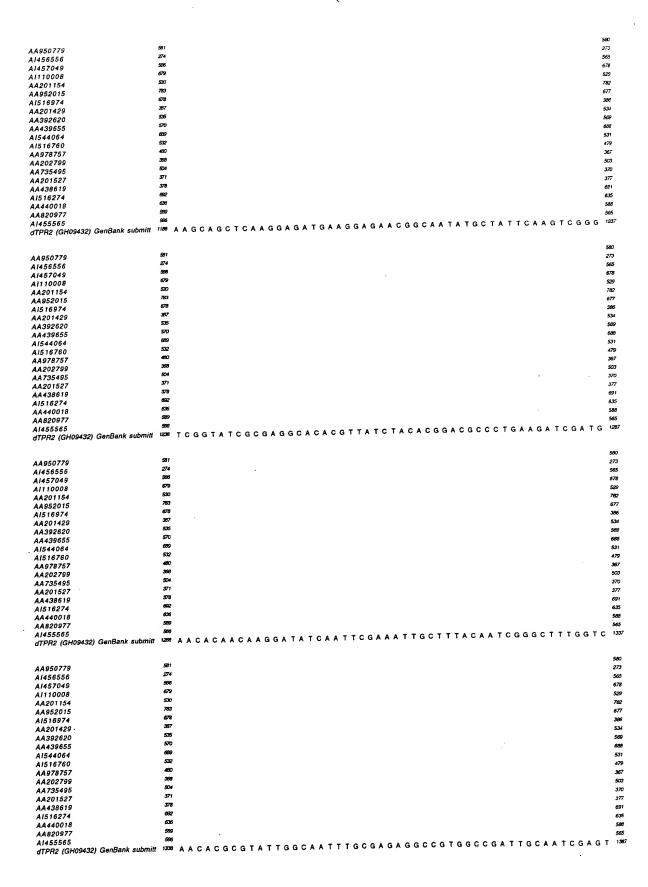
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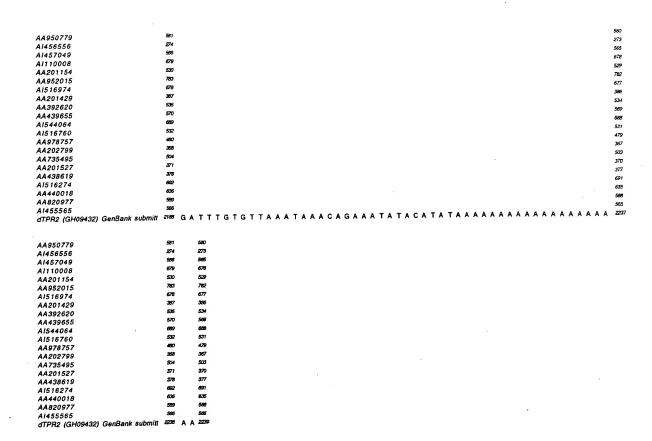


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A1456556	274																											273
A1457049	566																											565
Al110008	679																											678
AA201154	530																											529
AA952015	783																											782 677
AI516974	678																											677 386
AA201429	367																											534
AA392620	535																											569
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AA440018	636																											635
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FIGURE 11B

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A1456052 AA391402 A1514849 A1519786 A1546378 AA48290 AA820520 AA941597 A1455870 AA950277 AA941028 AA951077 AA951083 AA949900 AA541065 AA441093 dTPR2 (GH09432) GenBank submitt	654 632 552 561 618 583 551 547 488 247 171 512 700 597 841 590 654 632	c	G G	CG	i C /	АА	Α Α	\ G	тт	· G (C G	сс	АА	ΛT	ΤG	i G	A G	i G	c	C A	С	C.	А .	т т	С	А	3 G	i C	. G .	A #	A C	т	A C	G	Α 1	650 631 561 541 560 617 580 550 546 487 246 176 511 690 566 86
A1456052 AA391402 A1514849 A1519786 A1546378 AA438290 AA820520 AA941597 A1455870 AA950277 AA951077 AA951083 AA949900 AA541065 AA441093 dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1519786	654 632 552 552 561 618 553 551 547 488 247 7512 700 597 841 552 552	C	G G	c G	C	А А	АА	A G	тт	· G (C G	cc	АА	ΛT	ΤG	i G	A G	. G	c		С	C.	Α -	т т	С	А	3 G	i C	G .	A #	A C	т	A C	G	А 1	653 631 561 541 560 617 582 554 487 244 176 511 660 566 7 89
A1456052 AA391402 A1514849 A1519786 A1546378 AA438290 AA820520 AA941597 A1455870 AA950277 AA951083 AA9491028 AA951077 AA951083 AA949900 AA541065 AA441093 dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378	654 632 562 542 561 618 551 547 488 247 7512 700 597 841 590 654 632 562 562 562 562		G G	CG	i C /	A A	АА	\ G	тт	· G (c c	АА	ΛТ	ΤG	i G	A G	. G	c	A A	С	C.	Α -	т т	С	А	3 G	C	G .	Α #	A C	т	A C	G	Α 1	657 631 561 561 560 561 580 580 580 581 660 561 580 580 580 580 580 580 580 580 580 580
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A1456052 AA391402 A1514849 A1519786 A1546378 AA48290 AA820520 AA941597 A1455870 AA950277 AA941028 AA951077 AA941028 AA951077 AA941003 ATPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378 AA438290 AA820520	654 632 552 552 561 618 553 551 551 77 488 247 700 597 841 590 654 632 552 552 552		G G	CG	i C i	A A	АА	Λ G	тт	· G (cc	АА	\ Т	ΤG	i G	A G	. G	c		С	С.	Α .	7 7	С	А	3 G	C	G .		A C	т	АС	G	А 1	657 631 561 541 576 617 582 584 584 177 511 682 583 653 653 651 561 561 561 561 562 653 653 653 653 653 653 653 653 653 653
A1456052 AA391402 A1514849 A1519786 A1546378 AA438290 AA820520 AA941597 A1455870 AA950277 AA941028 AA951077 AA951083 AA949900 AA541065 AA441093 dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378 AA438290 AA820520 AA941597	654 632 552 551 561 618 551 551 57 488 247 700 597 841 590 654 552 542 542 561 618		G G	C G	i C i	A A	АА	Λ G	тт	·G(АА	ΥТ	ΤG	i G	A G	i G	c		С	C.	Α -	т т	С	А	3 G	i C	G .	. А /	A C	т	АС	G	А 1	653 631 561 541 560 617 554 487 244 174 561 564 564 576 631 584 657 584 657 584 657 584 657 584 657 584 657 584 657 584 657 584 657 584 657 657 584 657 657 657 657 657 657 657 657 657 657
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A1456052 AA391402 A1514849 A1519786 A1546378 AA48290 AA820520 AA941597 A1455870 AA950277 AA941028 AA951077 AA951083 AA949900 AA541065 AA441093 dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378 AA438290 AA820520 AA941597 A1455870 AA950277 AA950277 AA950277 AA951077	664 602 552 542 546 618 551 547 517 512 700 597 841 552 700 654 632 551 618 533 551 618 533 551 618 547 648 652 552 552 554 648 654 654 654 654 654 654 654 654 654 654		G G	CG	i C /	Α Α	Α Α	\ G	тт	·G(C G		Α Α	ΛТ	ΤG	i G	A G	. G	C		С	C.	Α -	т т	С	А	3 G	i C	G .	A /	A C	т	A C	G	А 1	652 631 561 541 560 617 592 594 594 597 597 597 597 597 597 597 597 597 597
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A1456052	590			580
	654			65?
AA00170E	632			629
1017070	562			551
41313100	542			5.11
71070070				5000
77700200	561			51
AA820520	618			59.2
AA941597	583			56,1
A1455870	551			54.
AA950277	547			19,
AA941028	488			243
AA951077	247			
AA951083	171			170
AA949900	512			517
AA541065	700			60°
AA441093	597			51.
	1141	C C C T C G A C C C G G A C C A C T A C A A G T C C A A G C A G A T G C G C A	GCAAATGCAAG	119c
dTPR2 (GH09432) GenBank submitt				
A145C0E2	590			580
A1456052	654			653
AA391402	632			631
AI514849				561
AI519786	562			g_1:
A1546378	542			500
AA438290	561			617
AA820520	618			58"
AA941597	583			
A1455870	551			Seri Sun
AA950277	547	·		
AA941028	488			49.
AA951077	247	•		24
AA951083	171			177
AA949900	512			51:
AA541065	700			690
AA441093	597			5613
				400.00
ATTRO (CHOMAS) ConPork submitt	1191	CACCTCAAGGAGATGAAGGAGAACGGCAATATGCIAIIC	;	1240
dTPR2 (GH09432) GenBank submitt	1191	C A G C T C A A G G A G A T G A A G G A G A A C G G C A A T A T G C T A T T C	CAAGTCGGGTCG	1200
dTPR2 (GH09432) GenBank submitt	1191	CAGCTCAAGGAGATGAAGGAGAACGGCAATATGCTA	CAAGTCGGGTCG	1201
dTPR2 (GH09432) GenBank submitt		CAGCTCAAGGAGAAGGAGAACGGCAATATGCIA	CAAGTCGGGTCG	54.
dTPR2 (GH09432) GenBank submitt A1456052	590	CAGCTCAAGGAGAAGGAGAACGGCAATATGCIA	;	
dTPR2 (GH09432) GenBank submitt A1456052 AA391402	590 654	CAGCTCAAGGAGAAGGAGAACGGCAATATGCIA	;	54 · 653
dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849	590 654 632		;	59 - 653 -
dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786	590 654 632 562		;	59: 653 631 561
dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378	590 654 632 562 542	CAGCTCAAGGAGAAGGAGAACGGCAATATGCIA	; A A G T C G G G T C G	58: 653 631 561 541
dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786	590 654 632 562 542 561	CAGCTCAAGGAGAAGGAGAACGGCAATATGCTA	;	59: 653 631 561 541 540
dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378	590 654 632 562 542	CAGCTCAAGGAGAAGGAGAACGGCAATATGCTA	CAAGTCGGGTCG	56:- 653 631 561 541 560
dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378 AA438290	590 654 632 562 542 561		CAAGTCGGGTCG	59:- 653: 631: 561: 541: 560: 61:- 550:
dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378 AA438290 AA820520 AA941597	590 654 632 562 542 561 618		; A A G T C G G G T C G	58:- 653: 631: 561: 560: 61:- 580: 550:
dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378 AA438290 AA820520 AA941597 A1455870	590 654 632 562 542 561 618		CAAGTCGGGTCG	5% - 653 - 651 - 561 - 560 - 61 - 550 - 550 - 541
dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378 AA438290 AA820520 AA941597 A1455870 AA950277	590 654 632 562 542 561 618 583 551		CAAGTCGGGTCG	591 653 651 561 541 569 611 550 550 541
dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1519786 A1546378 AA438290 AA820520 AA941597 A1455870 AA950277 AA941028	590 654 632 562 542 561 618 583 551 547 488		CAAGTCGGGTCG	59: 653 631 561 59: 61: 59: 550 54: 487 246
dTPR2 (GH09432) GenBank submitt AI456052 AA391402 AI514849 AI519786 AI546378 AA438290 AA820520 AA941597 AI455870 AA950277 AA941028 AA951077	590 654 632 562 542 561 618 583 551		CAAGTCGGGTCG	58:- 653 631 561 541 560 61:- 550 54:- 467 246
dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378 AA438290 AA820520 AA941597 A1455870 AA941597 AA941028 AA950277 AA951083	590 654 632 562 561 618 583 551 547 486 247 171		CAAGTCGGGTCG	58:- 653 637 561 541 560 61:- 550 541 487 246 170 511
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dTPR2 (GH09432) GenBank submitt AI456052 AA391402 AI514849 AI519786 AI546378 AA438290 AA820520 AA941597 AI455870 AA950277 AA951077 AA951077 AA951083 AA949900 AA541065	590 654 632 562 542 561 618 523 551 547 428 247 171 512 700		CAAGTCGGGTCG	58:- 653 637 561 541 560 61:- 550 541 487 246 170 511
dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378 AA438290 AA820520 AA941597 A1455870 AA950277 AA941028 AA951077 AA951083 AA949900 AA541065	590 654 632 562 561 618 583 551 547 489 247 171 512 700 597			58:- 653 653 561 561 562 65:- 58:- 487 248 170 511 66:- 566
dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378 AA438290 AA820520 AA941597 A1455870 AA950277 AA941028 AA951077 AA951083 AA949900 AA541065	590 654 632 562 561 618 583 551 547 489 247 171 512 700 597	G T A T C G C G A G G C A C A C G T T A T C T A C A C G G A C G C C C T G A A		58:- 653 653 561 561 562 65:- 58:- 487 248 170 511 66:- 566
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dTPR2 (GH09432) GenBank submitt A1456052 AA391402 A1514849 A1519786 A1546378 AA438290 AA820520 AA941597 A1455870 AA950277 AA951083 AA941900 AA541065 AA441093 dTPR2 (GH09432) GenBank submitt	590 654 632 562 561 618 583 551 547 489 247 171 512 700 597 1241			58- 653 651 561 561 560 67- 550 547 246 170 511 684 550 1707
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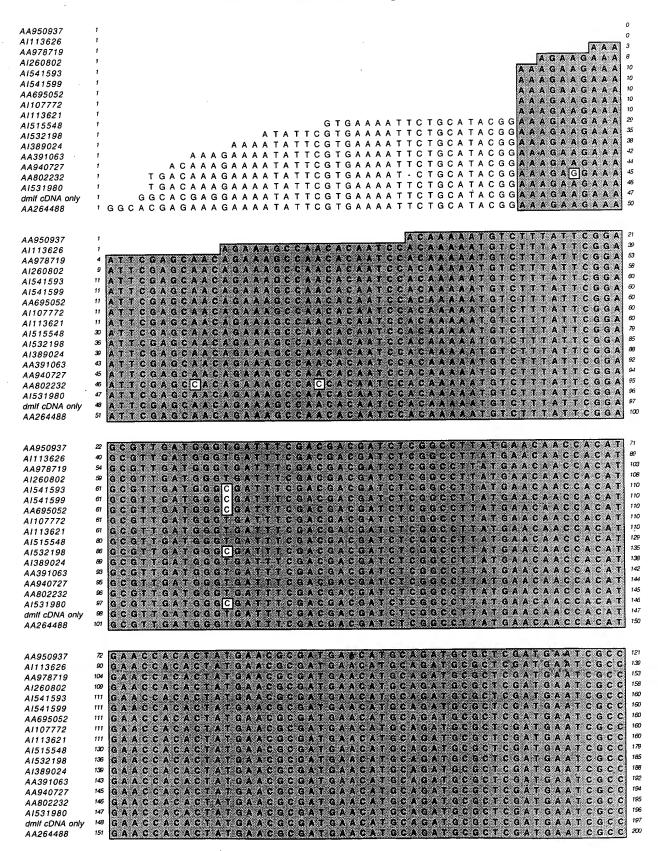
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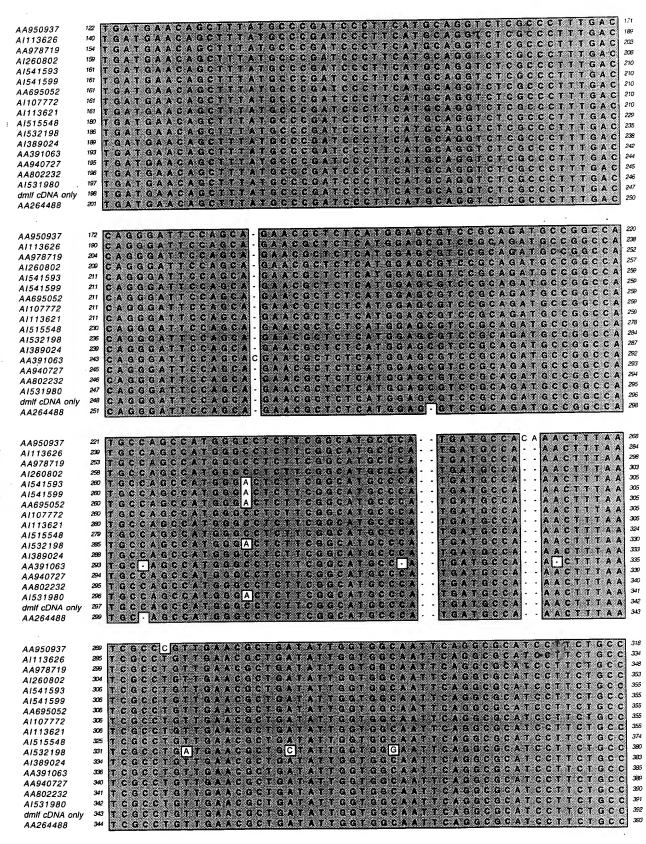
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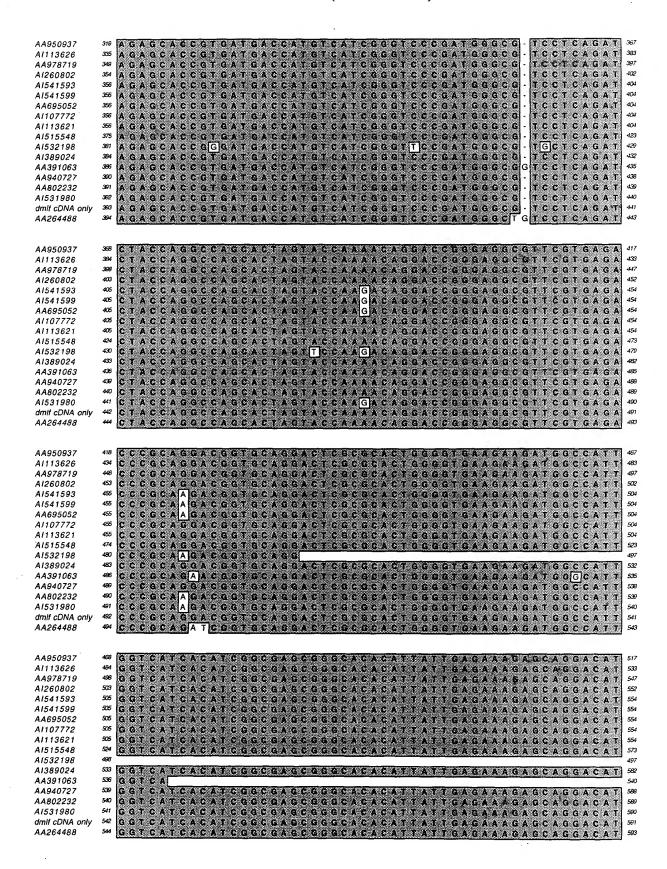
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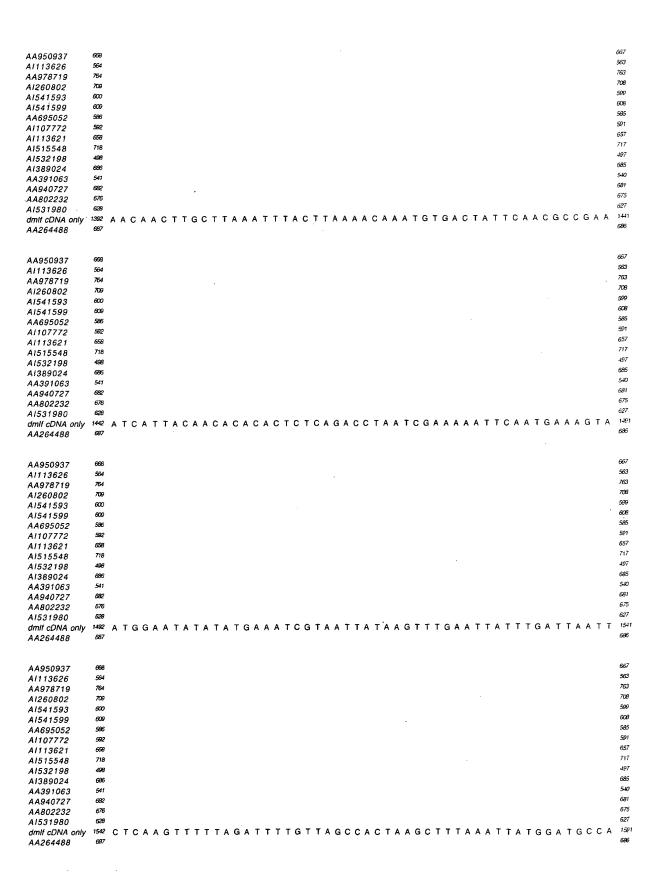


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AA950937 A1113626 AA976719 A1260802 A1541593 A1541599 AA695052 A1107772 A1113621 A1515548 A15352198 A1389024 AA391063 AA940727 AA802232 A1531980 dmif cDNA only AA264488	668 564 769 600 609 596 592 658 718 498 696 541 682 676 628 1642 687	A C	: A	A	CA	A	т 1	ΤА.	C	C /	A A	Т	T	C	C C	; c	A	Α /	А Т	Α.	C /	А Т	G	Τ #	\ A	т	т (	C G	т	A	A (	i G	С	c	Τ 🗚	. А	G	т.	А А	667 563 768 599 608 585 591 657 717 497 685 5-40 681 675 627 169 686
AA950937 AI113626 AA978719 AI260802 AI541599 AA695052 AI107772 AI113621 AI515548 AI389024 AA991063 AA9940727 AA802232 AI531980 dmil cDNA only AA264488	668 564 764 709 600 609 586 592 658 718 498 636 541 652 676 628	АТ	G	Τ.	ТА	A	c	Э Т	G	Α /	<b>ч</b>	т	т.		А Т	т.	A	Α /	<b>А</b> Т	G	G ·	ТА	A	<b>T</b> 1	ГА	С	<b>A</b> 1	гт	А	Т		. т	A	G	T A	\ А	Α	A	А А	667 563 760 599 608 585 591 657 717 497 681 675 627 174 686
AA950937 AI113626 AA978719 AI260802 AI541593 AI541599 AA695052 AI107772 AI113621 AI515548 AI532198 AI389024 AA391063 AA940727 AA802232 AI531980 dmil cDNA only AA264488	688 564 764 709 600 609 596 596 598 696 696 541 682 676 628 1742 687	А А	. A	Α /	A A	A	Α #	A A	A	55 77 55 66 77 44 66 66 66 67	67 63 63 69 69 69 69 69 69 77 79 79 79 79 79 79 79 79 79 79 79 79																													

#### FIGURE 13A

hTPR2 Protein 484 amino acids

MAATEPELLDDQEAKREAETFKEQGNAYYAKKDYNEAYNYYTKAIDMCPKNA SYYGNRAATLMMLGRFREALGDAQQSVRLDDSFVRGHLREGKCHLSLGNAMA ACRSFQRALELDHKNAQAQQEFKNANAVMEYEKIAETDFEKRDFRKVVFCMDR ALEFAPACHRFKILKAECLAMLGRYPEAQSVASDILRMDSTNADALYVRGLCLY YEDCIEKAVQFFVQALRMAPDHEKACIACRNAKALKAKKEDGNKAFKEGNYKL AYELYTEALGIDPNNIKTNAKLYCNRGTVNSKLRKLDDAIEDCTNAVKLDDTYI KAYLRRAQCYMDTEQYEEAVRDYEKVYQTEKTKEHKQLLKNAQLELKKSKRK DYYKILGVDKNASEDEIKKAYRKRALMHHPDRHSGASAEVQKEEEKKFKEVGE AFTILSDPKKKTRYDSGQDLDEEGMNMGDFDPNNIFKAFFGGPGGFSFEASGPGN FFFQFG

#### FIGURE 13B

hTPR2 cDNA 1756 base pairs

CGGCTGCCGCGGAGTGCGATGTGGTAATGGCGGCGACCGAGCCGGAGCTGCT CGACGACCAAGAGGCGAAGAGGAAGCAGAGACTTTCAAGGAACAAGGAAA TGCATACTATGCCAAGAAAGATTACAATGAAGCTTATAATTATTATACAAAA GCCATAGATATGTCTCTAAAAATGCTAGCTATTATGGTAATCGAGCAGCCA CCTTGATGATGCTTGGAAGGTTCCGGGAAGCTCTTGGAGATGCACAACAGTC AGTGAGGTTGGATGACAGTTTTGTCCGGGGACATCTACGAGAGGGCAAGTGC CACCTCTCTCTGGGGAATGCCATGGCAGCATGTCGCAGCTTCCAGAGAGCCC TAGAACTGGATCATAAAAATGCTCAGGCACAACAAGAGTTCAAGAATGCTAA TGCAGTCATGGAATATGAGAAAATAGCAGAAACAGATTTTGAGAAGCGAGA TTTTCGGAAGGTTGTTTTCTGCATGGACCGTGCCCTAGAATTTGCCCCTGCCT GCCATCGCTTCAAAATCCTCAAGGCAGAATGTTTAGCAATGCTGGGTCGTTAT CCGGAAGCACAGTCTGTGGCTAGTGACATTCTACGAATGGATTCCACCAATG CAGATGCTCTGTATGTACGAGGTCTTTGCCTTTATTACGAAGATTGTATTGAG AAGGCAGTTCAGTTTTCGTACAGGCTCTCAGGATGGCTCCTGACCACGAGA AGGCCTGCATTGCCTGCAGAAATGCCAAAGCACTCAAAGCAAAGAAGAAG ATGGGAATAAAGCATTTAAGGAAGGAAATTACAAACTAGCATATGAACTGTA CACAGAAGCCCTGGGGATAGACCCCAACAATATAAAAACAAATGCTAAACTC TACTGTAATCGGGGTACGGTTAATTCCAAGCTTAGGAAACTAGATGATGCAA TAGAAGACTGCACAAATGCAGTGAAGCTTGATGACACTTACATAAAAGCCTA CTTGAGAAGAGCTCAGTGTTACATGGACACAGAACAGTATGAAGAAGCAGTA CGAGACTATGAAAAAGTATACCAGACAGAGAAAACAAAAGAACACAAACAG CTCCTAAAAAATGCGCAGCTGGAACTGAAGAAGAGTAAGAGGAAAGATTAC TACAAGATTCTAGGAGTGGACAAGAATGCCTCTGAGGACGAGATCAAGAAA GCTTATCGGAAACGGCCTTGATGCACCATCCAGATCGGCATAGTGGAGCCA GTGCTGAGGTTCAGAAGGAGGAGGAGAAGAAGTTCAAGGAAGTTGGAGAGG CCTTTACTATCCTCTGATCCCAAGAAAAAGACTCGCTATGACAGTGGACAG GACCTAGATGAGGAGGCATGAATATGGGTGATTTTGATCCAAACAATATCT TCAAGGCATTCTTTGGCGGTCCTGGCGGCTTCAGCTTTGAAGCATCTGGTCCA GGGAATTCTTTTTCAATTTGGCTAATGAAGGCCAACCACCCAGAACCCAG AAAATGCAGATTCACTCAGTTTAATCTTGAATGTGGAAACAGTTCACCTCCTC CCTTCATCACGTCTCCGTGTGCTTAGAGCAGTTTCGTTTTCTCAGTTGGATGCC CTGTGTCTCTGTGAGTGGGGTGGAGCAAAGGGAACCAATGCCGAAGACCGAG GGCAGGGGAGGGGGGGGGGGACAGGGAGGCAGCTTGTGAATTTTTGT 

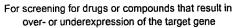
#### FIGURE 14 A

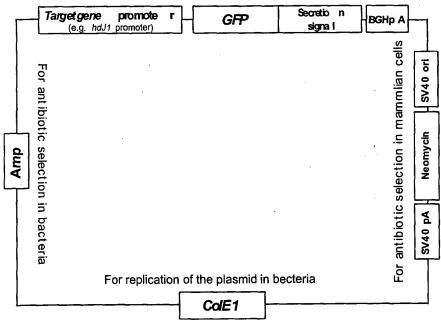
hMLF Protein 268 amino acids MFRMLNSSFEDDPFFSESILAHRENMRQMIRSFSEPFGRDLLSISDGRGRAHNRRG HNDGEDSLTHTDVSSFQTMDQMVSNMRNYMQKLERNFGQLSVDPNGHSFCSSS VMTYSKIGDEPPKVFQASTQTRRAPGGIKETRKAMRDSDSGLEKMAIGHHIHDR AHVIKKSKNKKTGDEEVNQEFINMNESDAHAFDEEWQSEVLKYKPGRHNLGNT RMRSVGHENPGSRELKRREKPQQSPAIEHGRRSNVLGDKLHIKGSSVKSNKK

#### **FIGURE 14B**

hMLF cDNA 1116 base pairs GTTATGTGTTCCCGTCCGTACTGGAGGCTAGCTCTTGTCGCGGCCGCGCGAG TTAACATCGTTTTTCCAATCTGTCCGCGGCTGCCGCCACCCAAGACAGAGCCA GAATGTTCAGGATGCTGAACAGCAGTTTTGAGGATGACCCCTTCTTCTCTGAG TCCATTCTTGCACACCGAGAAAATATGCGACAGATGATAAGAAGTTTTTCTG AACCCTTTGGAAGAGACTTGCTCAGTATCTCTGATGGTAGAGGGAGAGCTCA TAATCGTAGAGGACATAATGATGGTGAAGATTCTTTGACTCATACAGATGTC AGCTCTTTCCAGACCATGGACCAAATGGTGTCAAATATGAGAAACTATATGC AGAAATTAGAAAGAAACTTCGGTCAACTTTCAGTGGATCCAAATGGACATTC ATTTTGTTCTTCCTCAGTTATGACTTATTCCAAAATAGGAGATGAACCGCCAA AGGTTTTTCAGGCCTCAACTCAAACTCGTCGAGCTCCAGGAGGAATAAAGGA AACCAGGAAAGCAATGAGAGATTCTGACAGTGGACTAGAAAAAATGGCTAT TGGTCATCATATCCATGACCGAGCTCATGTCATTAAAAAGTCAAAGAACAAG GATGCTCATGCTTTTGATGAGGAGTGGCAAAGTGAGGTTTTGAAGTACAAAC CAGGACGACACAATCTAGGAAACACTAGAATGAGAAGTGTTGGCCATGAGA ATCCTGGCTCCCGAGAACTTAAAAGAAGGGAGAAACCTCAACAAAGTCCAGC CATTGAACATGGAAGGAGATCAAATGTTTTGGGGGACAAACTCCACATCAAA GGCTCATCTGTGAAAAGCAACAAAAAATAAATAGCCATGCATTTGATTTGTT TAGTTTTGATTGTTTTAACAGTTAGTAATGGTGCTGGGTAATAAGCATAAGAC CAATCTCTTGCTGTTAAATCAGTTCTGTCCTTGGCAACTTTCTTCTGATATCTG AATGTTCATGAAGGTCCTAGCTTTATATTGTCCCTCTTTTAGGAATAAAATTTT GATTTTCAACAAAAAAA

# FIGURE 15





#### FIGURE 16

dHDJ1 5' region, 24333 base pairs

TTACGGTTTATTTACTATTACTCTAGTTAATCAAATAAACTGTATAATTCCTGG TCTCCGTCGTATTCATCATGGTACATATTACATCCAACATACTTTATTTTTTT GGGTTATTAACATTGGCAATATCGCTGCTCGCCGCCGTTCGGTTATGCTCTAT AAATAAAAGGGGGGCGCCCTAAAATTATAATAAAATTTTCATGGGTCCTAA ATCTAGTCTCGAAATCTATGTACAAAGTTTGCTTGCATGCTGGTTAGGCATAG GTTCTTAACGTATTATTGGGTTGCTTTATTTCCATTCTGCGCAGTTGTGCAGCC TGTTTAGTGTTTGCCTTTACGGGGTTAACATTTTTTAAAAAATGAAACATTAGA GCGGTAACCTTGTTGTCTGATTATTGGCGTCATTAAAGCGGTATCGCCAGCAC GCGATTGATGCAAGGATACCGATTCAATGAAATAAAAACGAATTCAGCCAAA CACAATCTTTCATTTTTTTTTTTTTTTATCGTACTTAATGATAGCCTTAGTTTCTA ATGGGACTGTGTGCTTCGGTGAAGGTTGGGGATGATTTTGGGAGGCAACAAT TATGTTCTAGCTTATAGCTTACAGTCCTACGCCTACTCCTATTTCTAATATGTT CATCATCAGCAGTTAAAAAACGTTTACAAAACTCATGCGAAATTGAAATCCA ATAACAAATGCACACGCCGCAGTCGCATCGGCGTCATCTCTTTCTCCTGACCC TCGCCTATCCGCATCCAGTTAGGTTTGCTGCTGCTGCTGCGCCGACGGTTGTC GCCGACTGAAGCCACCGCCGGCGGACAGATGTCGTTGCAGGGCTCGCTGCTG CTGGAACTTGGCGCTGCCTGGTCCTCCGAAGCGGTTGAACTTGAACTTGTTGC GCTGCTGGAAGTTCTGGCGATAGTTCTGATTGTAGAATCGCGGAAATCCTCCA CCTCCGCCGTTCTTGTTCCAGCGCTTCTGGCCCTCGTACTCCTGGAATGGATT GTACCCGGGCGTGCTGTTGCTGGCATTGTTTCCCTTAGCCGAACCGGACTTCA CCTTCCGCTGACGTCCACGATCCATCTCGTTCTTCTTCGTCGTCGTCGATGTCCC GCTGCCGCTGCTCACGCGCATCCACCAGTAGCTACGGAAAACAGAATATCAA ACAAGCACTGGGAATATGCACATTGTATTCGAAATGGGTGAGTGGCTTACGG TTCACGGTTCACTGTAACAGGTTATCAGGCAAAACGGTAACGGCACAACGGT TGAATTTATGGCGTATCAGGCGGTTGAAATGAAAGAAACAACGTGCCGGCCA GCAGTCAAATCATAAGCTTCATTGCACGGGAAAACGGATGCGGAGTCATCGG GTGAATTACCTAGGCTCCGGTGCAGTCACTCTCTCCCGCAATGACTTTTGCAA CTCTCTCTACACTTTTCACGCTCGCTGAACGGAGGACGCGTTGTGGTGACCGC CCGGTTGGGAACGGATACCAGCAACGCAGCCATCACAGACTATTCGGGGTAA TCGTATTATTTGTATTTGTTGTGTGGTATGTGCTTAGTGGGGAAAAAGAAG GATCCGGATCGGGTGCGTCAGCGGTCGTGTCTGTTACCGCCACTGCAATTACG ACCACATCTTTACTGTCACTGCCACTAGTCACTGCCGCGTCGACTGCAACCGA GCCCTCGACGATATCGCTGCCTTCCACACTGCCGTGACCAGCTATCCGTTTCG CACAAACCAACTCAAAAGTCTAAATGAATGGGGGATAATGTGGAAACAAATG CAAATTACAAACAAGTTCGTTTAGTAAATCAACTCAATCGAATTGCATTTTAT GTTAAATAAAGAATTAGTTAAACCCGCAAAAAGAGAACCAATTTATGTA CATTTCATCGTATTAAGCCCGCAACTTGTTATTTTTGAAGCACAGACCCAAA GAAAGTGTTAACCATGCATAGATTTAGTATCTACGTTAGTGACATGGTCACA AGGGATAGATAAGCGCTTCAAGGTGAATGCCTCTCTAAACTCACCTCCTTTTC

GAGCTCCGCGGGCTTGCCATTCCAACTGAGCACGGGGGAGCCGTATCCACGA TACGATTGCTTCAGCAGCTCATTGATGGTGCTCCCATTCGAGGTGGCATTGCT CTGGTAGCCATTGCCCACCCTTGGCTGCTGCTGCGACTTGAGCGCACTGCCGT TGAGCAACTTTTGGCGCTTGGCGCTTGCGGGCGAGTCCGTGGAGGG CTTGCTACTCGAGAAGGGATTGCGATGGTTCTTGTTCGGCGTCGGAATTTTCA CCGGCGATCCCTCCACCACCACGACGTCAACATCATCTTCGATGGCATCGAC CTCATCGTTACGCGTAACTTTCCAGATACCCGTTTTCGATTTGATGACCGCTG GCGAGGGTGCCTCTTTGGCGATGGTGCTTTGCTTTGAGACTGTGATTGC TTCTGTGGGTGCCAGCCATTCGTTAGCTGAATGCTGGGCTCCTCCTCATCGTC GTCCTCATCACTGTCTGCGGACTTTTTTAGGCTCTTGAATATCTCGTCTATGGC ATCAGTCTTTTGTTTGCTGTTGTTAACGTGAACCGATGACGAGGCTGAGCCGT TGGTGTGGCCATTGGTCTTACTGTGACCATTGGTCTGGCCAGACTCTTGG TCCGACTCGCTAGAATCCTCCCCACTTGGACGCTTGCGGGGATTCGGTAGAG GCGCCTCCTCCTCAGATGCTGATTCGTAGGGCACAAGACTTTTCAGTGGC GTTTTGACGGGAGTCTTTACTTGAATCTTTACAGGAGACTTTGCCTTAGGCTC CGTATGATTCTCCGTCATATTGGGCATGCTCGGTAGCTGGGCTGTCGTTGGTC TGGGCTTCATCTCATCCTCGATGTCTTCATCATCCGAGGAAATTGGCAGATAT TGTTGCTGGTTTATTGATTTATGGTTGCTGCTGCTGTTGCTGCTTGGGGAGGA ACTTTTGTTACCATTTGCAGTGGGAGCTGAAGTAGCTTCGCCTTTAGCGTGAG CGCCAACCAGTGGAGGCTTCGCAGTGTCCTGAAACTTTCCGGTACCCAGCTG GAGTCCGTTCTGTGGACTTTGCTGGTTTTGTTGCTTGAACTGGATGGCGGTTTT CTGGGCATTTCCATTAGTGTAACCGTTTGCTCCACCCGCCGGCAGTTGAGGAC CAATGAAACGCGTTGGTGAAGGCGAAGACACAGTCGCCGCCGGCACTGGCGT TGTGCTGTGTCCGTTGGTCAAACGCACTCCATTGGGCCTGTTGGCCGCCGGAC TGGCAGCCTGTGAGAGGTCCAGTTCGAAAAACATTATATAGGCATTTGTGTT GCACACACTGTGCATTGCGATTGGCCGCACGTAGCTGTCGTCGAAGTTGTAA AAGCTGCCCGTATCCGTGGAGCCAATGCCGTGTAGTGACCGCAGTGCTGGG ACGCCCCAAGTGAGTGACCATCGACACCAGGCGATAGGTGAGCGGTTGAGC CTGAGCTGCTTGTGAACGGGCTGCGTATTTGCTCAAATCTATGCGTGACTTGA AGGAAATCTGCTTGGTCAGTTTGTTGCCGATCATGGAGAATCGCTTCAGCTGT ATACAAAGCGTGATTGGGGCACGCTCCAAAGAGAATTGCTTTGTGGCAGATA CCTGCAAGCGATACGTTTAAATAAAATGAACTACAGAACAAAGGTCACAAAG ACCTACCTTCTTGCATCCCTCGCACTTGTAGCCCATATCCTCTAGCCGTTC GCGAGAAAGTGTCCCTCGAAAGCATCCTCCAAGGAGTCTGCCTTGCGGATG TCGAGCAACAGATCCTGGAAGTGCTGAAACGTAATGGACACATGGTTGCAGC TCAGACAGCGCACCTCGCTGCGCAGATAGCCGCCAAAGATCTGTCCCAGCGG CGTGGTCTCCTTAACCAACTGATCCAGCTCTTTGTAGTTACGAAACCGCATCA AATACGCCCGCTCCATGGCCTCGACCAGGAAGCGCAGGAACTCGTGCGCATC CTCTTGGCGACCAACGACCATGTGTTTGCAGATCTGCTTTAGCTTCGAGTAGA TGAGGAAGGGTCTGACGGCCGACTGATTGCTTTGGGTGGCCAAAAGTGTTTT GGTCATGGCGCAAATGATGCAACCGCTGCCAGGTTCGGCCACATTGCAGTCA GCCAGATGCGCCTGCTCCGAAACGAGCCAATTGGCCAGGGCGGGTATGTGCA GGAGCGCCTGAAGCGTTGAGTTGAGGTAGCAGGTGTTGCCCACATTGATCAT GCCCGTGCCCACCTGCCATTTGCGCTCCGACTGCTTCCAGCCAATGCGTATGT TCTCCCGCGGATAGAGGACCCTCTTCGGCTTGGGCAGCTCATTGGGATTGCTT GTCGGATGCTGATGATTGTGGTGGTTGATGTGCGACTGATTGTTCGGGTG

CTCCGCTTGCTGCGGGCGCCGTTATTGTCTGCAAAGGTAAAGAGGACGGTA GACAGTTTAAGCACGTGCCACAGGAGAAGGCAGCAGGAGACAGGAACAGC TTGTAGAGCAGCCACAGGGCGAACCCGTCCACCATTATCACAGTCATAATGC ATTTATTGGAAGAATTCCCTTCTGCAGATTAAGTCACTTGATCCGCGCTGCTA TGAAATATAAATAAACGAGCAGTGCTCGCTGTGGAAACTGCTGACACAA TCGCGCTTCCATCACCTGTTCGCAGTGTTGGAAAGGGTACACATTTGTTGTAC CTAGGCACCGGACTGTGCAGCATTAAGATAGCTATTCTATTGAACAAAGAAA CTTGAACACAAAGTATACGCCGAAAAAAATTTCCAGTACTAGATTTTGAAAT ACAATTCTTTGAACATCGTTACAGAATGTGATATCACCAGATTTTATCTGAAA ATATTTCACAGCATCGTAATTTCATATGTACCCTGAATATGTATCTTGCAGTT TTGTTTGGGAAAGTGTACCAATCGAGGTACTTATCCTGGTACACATATCTCAG ATATTACCCAGCACTATTGTATCTTTGATAACAGCTAGCGTGTGAGCGGGATG GCGACTGGCAGAAGAAGAAATTTAAACTGATAACAGCAAGCGAATGAGAGG GATGGCGAGTGGAAGCAGTCCAAGTGTCTGCCGACGAATACAGTGGT CTCGTTCTGGCGTAGGGGGTTGGGGCGGCAGTGTTGCCAACTGAATTTTTGGC GCGACCTAACAGTGGTTGTTGTAGGCCCAATGCTCCCCCCTTTTATTGTCTTT AGTCGAAACATCGTGTAACAGCTCCTGGTGCTGAGCTTTGTGTCCACTTCCTG AATAAAAGCACCGCTGGGGCTGGCCATGTGCGGGGGAAAGAGACGGAACTA CGGAGGGGAGCCCTCGTGCTTTTTGTCTTTTTTCCTTCTTTCATTTGCCGCTG GAAATACAGCACGTTTTTTTCCGCCACAACTTCTGTGAATCAGAAGTTTGGAA GAGGCGCTCTGTTGTTGCTGCTGCTGCTGTCACTTTTCCAGCTTACTCTTTAC GGCGTTGTACTTGTTTTGCTTTTTCCGCGTATTCCTTTGCATTCTGTTTACACG ACAGAAGCGCCTAAAAAGTACAGGTATGCTGCGCTGCCGACGTCGACTGCAC TGCCGACAAAATGCAGGCGGAGCAATAAAAAAAAATATGTTTGCGGAAAAAC AAGATATAGCACATGGAAAATTGCGCAAAAATTGCCACACAAAGAAGAAAC TTACATTTTGTTGTATCTTTACACAGTGTACTCACCATGTCCATTTGCGCCCAC AAGTTTGCCTGTATTGTTTTTGCCACTAAAGCCATTGATGGCGCCTGGATTTC CCGGCTTGATGACAATATATTTGGACTTGAGGTTCTCCAGCACCGATTCGTGG TAGTTGGGCACCTCCTCGTATTCGATTTTGGCCATCAGGATGCGTTTGGCATT GGCCACGATGTGATTTTGCAGGCTGCCGTTGGTGTCCTCGCCGCTCTTGGCCT GGTCAGTCGACGAGCCGGCGGAGGAGTTGCCGCCAAGGGATTCGCGCAGCG CTGCGTTGACGACATTCGCCGTTTCGCATACGGCCATCGAAACGGCCATGGC GATGCTCCGGCTGGGATTTGCGGTGGAATTTTGAACGGGTGTGAGGGGCGT GGTGTGGCGTGTTTGGTGGTTTTCGCCACCCAGTTAGCTAATGCACATGGGC GTGCGATCCAAAGCAGATACTAGAGATCCTTCTGCACAGCCCACACGTCCTT CAAAACTCTCCTACTGCTCTACGCTCACTTTTCTCCTCGCCCCTCTCTCGAACA CTTCTTGTTTCACACACCGACTGCGACACCGACACACGCACACTAACGCACTC GGGAGCACTCTTCTTTTCTGGCTTTTTCGCGCTGCGATCTCGATCTGTTGGCC TACTGAGCATTACGATTAAGAAACGTTCGCTCACAAATTGATCTGTTTCAATT

TCGTGCGCGGCCAGGCATTTTAGAACGAAAAGTCTGCTTTCGAAAATAATGG CAATTCCTTCCCTCGTGTTTCTTCCGACTGCGGATTCTCTTTTCGCTTCATTTTC GTCATTTGGGGATGCCAACTCGCGAGTGGCCAAGTGACGCGATAGGCCTCTC GAAATGTCCTAAAGCATTTCACGATATTTACAAAAATGTATTTCGATGTTTTC TTAACAATAAAAATTGGTTTAAATTTAATAAGACATTTGTTACCTTGAATAT TATTCAAGTTATAAATTTAATTTTATAACGGTATTTTTACACCTTATCAGCAC ATATCGATAAGTGTGATTGGGAACGACAACCCATCGGCACAATGTTGATGCA ATTGTTGAGCTAGCCTTCATAATTAGTCGCAATCAATCGAGCAGAATGGCTTC ATCCACAGGTCTCCTGGTGTGTCCAACATCAAGCACCTTGGCAAATCCCTGC GAGCCATCGAGAAGTACGTGAATTCACTGTACATCCACCTAAATGTGGCGGG GTCAACGTCCACGACGTCACCAGTTCCACCGCCTCCGGTTTGGGGTCGTCTAA TCTCGCAGCTGTACGCCAACAGCAGCAGCTATGTGGGCAAGCAGTTGGACCT TCGCGTCCTTGTCTCCCCCTACGACCAGGTGCCAATGGATCCCTGAAGTTGC GCCAGCCGTCGACCTAATCTTCTCGGATGCACATCATCCGGAGCTGTGCGAC AGGCTTCGCGCGGATCTTAACATCAGCAAGCCAACAATCTTCCTGGATGACT CGGTCATCTCGGATTTAAGTGCCCAGCAGGATGACACCCAGCCGCCTAAGGT AGATATTCCTCACCCAGGCTGTACTGCGCACCTGCAAGCGTTTGGTTGTGGGC GTAACCACCTCCGCCATGACGAAGGGTAAGACGGGCATGAATTGGCAAAATA AAACGCTTATCTTAACGACCATTCTTATCGCTGTCTGCAGGAAAGACGCTGCC GGACTTGATTTTGCCCGTGGAAGAGCGCATCGCCCGGCTAAGGGAGTTCCTG GTGGACATAGATGATACGCTGCAGTACGAAATTGTGCCCATCGATGATCCCT TTGGTCCCACGCAAGTGGATCCTGACCTGGACATGATTGTGGTCAGTGCGGA GACGTTGCGAGGAGGCAGAAGGTCAACGAGGTACGCTCCGCTAAGCAACT GCGCGAGCTGGAGATCTTTGTGATTGACATTGTTGAAAGCAACGTGCATGAT GGCATCCACGAGACCAAGGTCAGCTCGAGTAACACACGCATCGATCTGCTGG GAACCCGCTGGAGAAGGCCGGAGCCACGACCACAGCTCCCGCCGCCCCTTA CATTATTGGACTCACTGGCGCATCGCATCTGGCAAGAGCAAGATGGGCGAG AGATTGGCCAACATGGGCGCCCACGTGATCGACTGCGATAAGGTGGCGCACG ATGTTTACGAACCTGGTCAGTTGTGCTACACCCGAATTGTGCAGCACTTCGGA CAGGGTATTGTTTCAGACGATGGTCGCATCGATCGGTCCAAGCTGGGACCCTT GGTGTTTGCCGATCCCAAGCAGTTGCAAGCACTCAACGCATTGTCTGGCCG GAACTTATTGCGGAGGTTAACAGGCGGCTGGATGCACTGCGTTCCCAGGCGG ACGTGCCGCGTGTGGTGGTCCTGGAGGCAGCGGTGCTGCTGCGAGCGGGCTG GGAGACCAATTGCCATGAGGTGTGGTCCATGATTGTGCCACCGGATGAGGCT GTGCGGCGATTATTGAGCGCAACAAGTTGAGCGAAGTGGAGGCCCAAAAG CGACTGGCCAGTCAGGTGCCCAATTCTGAGATCGTGGCCAAGTCGCATGTGA TATTCAGTTCGCAATGGGATCACGAATTCACCCAGAAACAGGCGGAGCGTGC GTGGAAAATGCTTACCAAGGAACTGGACTCTTACCAGAGCAGCCTTTAACCC GATGGATATTTAGATTATCTTGTTGATCCTTATTTTGTATGATTTTTTATGCAT TTGTTGTATATTGTTTAGTTGTAAGTCCAAAGTTGAAAAGAAATGCTGGGACG TCATTGGGGAAAAACGCTGAAAATTTCAATGGAACCTTAGTGGCTCTCGCCC TTCTTGCCAGCCACTCGCTTGAAGTCGTTCATCTTGGTGGTCATGATGGGGGA TCTTCACGAAGATTTGGATGTTTTGCACATTCTGGAACTTGACGTAGCGCAGA

TTCACGGGCACTCCACTCTCCAGCTCCTTCTGAGCCAGGCTGCAAAATGGATT GAACAGTGAGAAGAGCTAAGCAGCCATAGAGAAGGCAATAGCTACCTTAGA TCCTGCACACTGTTCATGGACTCGGCCATGTCAAAGTCAATCGTGCGGGGCTG GTTAATGAACAGCTTCACATCCTTGGGACCCAGGTGCGAAGGTGCCTTGAAC TTCAAAGAGTGGATCTTCACAGCCTGATTAAAGGTGATGGACAGGATGAGCT GCTCATCGCAATCGGACTGCAGGTAGCCACCGGCGGAGGCCAGGGCGTGCTT TAAGTTGTGGTCATCAGCTTCGTTGAGGCACTCGCACTCCTGCTTCGAAATAA ATGTATTCAGTTCCATCTGTAAGAAGGATTAGGGATTATTTTTGGAACATTTC CAAATACTGCACTATATTACCAATCCCTGCCCGTAATCCTCGCCCCCCTCCTC GCCACCGGATGTACCGATGTGCTCCTGGATCTTGGCCTCGAGCCCATTGACGT CCGCACCCTGGACGCGATCGATCTTGGTCCTGTTCCTGTAGAAGATGAATGTT GGCATGGCCGAAACGCCCTGTCCAGCAGCCGTGTCCTGGCACTTGTCCACAT CCACTTTCAGGAAGATGGCCTTTGGGTACTTTGTTGGAAACGTCTCGAAGATG GGCGCAATCCGCTTGCAGGGACCACACCACGAAGCTGTGAAGTCCACCACAA CCAATTGAATGCCCGCTTGGGCCAACTCCGCCTGGAAGTGGGACTCGTCGTT GATCACGCGCACGGACATGGTGATAGGATTAGGTTTCTATTAATTGAGCTTTT GTTTCGGCAGCCGAATTGGATTTAAGCAAGTAAATGTTATTATTAACGTTCAA TGCAAATTTTTTTTTTTAAAGATGACTTGTAATATGCATTTAGTCCAAATTCGT GCTAAGAAAATACCGAATGCGGTATTCCACAAGCGGTCACACTGTGATGGT ATCGATATTTCGAGCTCTTTGACTTCCTATTTTTAGAGGGACCATTTATGTGTA ATAGAAAAAACCGAAACTTAATATTTAAACTTTTATTGAAATATTAGTGGA TTACAATATGTAAAACTATGAAATATTCTCATTTGATATAGCTCAAAGTGTTA TTTAAAATTCATTCAGTGTTTACGACTAGCAATCTACGCTTTCACGCTCATCTT AAGCTTACCGCCCATTTGCCAGGGTTGTCAAGGCGAATGAGCGGTCCCACCA TACACGCCACTGGAACTTTCGATACCTGCGCTGCGCCTGGCCACACGTTCATT ACCTCGTGGTGTTTCAGTCGGTCGCATTTTCATTAAGTCGCCATTTTAAAATT ATTAGAGTCAAGTACAATGGCAGATGTGGAAAAGGAGCCCGAGAAGACCAT CGCCGAGGATTTGGTGGTGACCAAGTATAAGTTGGCCGGCGAAATCGTCAAC AGTGAGTATTCCTTGGCCGGAAACAGCGAACGCTGGCCGATTCCTGGAGTCG CTGCTACGTGGCGCTTACACAATGCACCGAATGCCGCTTTCCCTTGTGCGCCA CGCGTTGGTTAATCTGCCTATTTCTGGACTCTGTCTGCTCGTTTAATTTTAGAA GTGGCCACCTGGCGGTCATTCGCGCCAATTTCATGTCCAATGATTAAGACTTA CACCTTTGAGGGTTTCCCGATGGCGAGCCATGTGCTGTGCGGGCTGGGGATC ACCTCGTGGTCGCCAGGCGCACGCGGGGACTCCAATGCTCCACGTGCCCGGC TTGTGTGCTCTCCAAAAGGTCCCGAGGATTTACAGATTATGAGATCTGAGGA CACACCGCGCACTATCATTGATATATAGTACAACGAACAAGCAATCTAATGC TTTTATCGATCTTTCACAAACAGGTATACAAAAAGGAGAAAAAGACCTGAAGAA GGGCATTGCCTTTCCCACCTGTCTGTCCGTCAACAACTGTGTCTGCCACTTCT CGCCAGCCAAAAACGATGCTGACTACACGTTAAAGGCCGGTGATGTGGTCAA AATGTAAGTTGAACCTCCTATTCCACATATACCGCCACTAAATACGTAACATT TCTTTCTACAGCGATCTGGGTGCCCACATTGATGGTTTCATTGCCGTGGCCG CTCACACAATTGTGGTAGGCGCTGCTGCGGATCAGAAGATCAGTGGTCGCCA GGCCGATGTCATCCTCGCCGCCTACTGGGCTGTCCAGGCTGCCTTACGTCTGC TCAAGTCCGGCGCCAATGTGAGTCCTCCCTTACTTCTAGGTAATCCTCCGTTA

ATCCCTGCAAGAAACGGATTGTCTGCCGCGATTCTCCAGCGACTGAACATCTC AACACTTGCAAAGATCAGCTGTGGCAGCTGGTAATTGCCCTGGCCTATTATTC AGGACTGGAGGCTTCTTGTCAGTTGTCCACAAGGTTATTTCTTCTGCAGGCAA CGGATTGACTGCGCTCAAACTCTGACACAGATCAGCTCAACACCTGCGGATA GAAACTGTGTCAATTTCGTGAACTGAACAAGTTCATTCCATAGAAGTGTTCGG TCTTTAAATTTGTCCACATCTCCAGTTTATAGATATGTCGGAATTGTAATCTGC AGGCAACGGATTGTCTGCTGCCTTAACTCGTGGCTCAGCACAGCTCAACGTCT GCAGAGATCAACAGTGTCGATTTCGTGAACTGAACAAGTTTAGATACTTGAA ATGTTCGGTCTTTAAAGTTGTCCACAATCGCAATGATAATGCCGATCAGTTAT TGTTATTTTGCGTTATCTATAGTATACTATGATATTTGATTAAGATTAGTCAAA GGGAATTGGAATGTTTTCTTTATCTCTGCTTTGAACTATTTCCATTTTATTTCA TACTTAATATTTATGTTTCAATTCTGTATCCTTACAGAACTACTCCCTCACCGA TGCAGTGCAACAAATCAGCGAGTCGTATAAGTGCAAGCCCATTGAGGGCATG CTCAGTCACGAGCTGAAGCAGTTCAAAATTGACGGCGAGAAGACGATCATAC AGAACCCCAGCGAGGCGCAGCGCAAGGAGCATGAGAAGTGCACCTTCGAAA CGTACGAGGTGTATGCCATCGATGTTATCGTCAGTACCGGCGAAGGAGTGGT TAGTAATCCATCAATAGACACTACATCTCCACTAATTTGTTCGATGATTAAAA CTTGTTTGCTCGGCGTTTTTTTATACTAAAATGCGGCACGTGCAGACACCAAG TTCCGGCTGGCTGTTCCGAAGATTGCAAGATTATGAGATCTGAGAACGCC AAATTTAAGCTGGATCCTGGATCATCGCAGCCAGAGCATTATTGCTAACATTA TTCGTATTCGTTGCAGGGACGCGAAAAGGACACCAAGGTCTCAATTTACAAG AAGTCTGAGGAGAACTACATGCTCAAGATGAAGGCGTCCCGTGCTCTGCTGG CAGAGGTGAAAACCAAGTACGGAAACATGCCATTCAACATCCGCAGCTTCGA GGAGGAGACCAAGGCCCGCATGGGAGTTGTTGAGTGCGTCGGCCACAAGAT GATTGAGCCCTTCCAAGTGCTGTACGAGAAGCCATGTAAGTGTGATGCATAT TATTATTAATCCTATTCCCTATTATGCGAGTTGGCAGAACTTAATTCCGGACC TGGTACACCTTCGGGTGCTAAGTGCGGCCAGACATTTTGCCAGAACAAATTC CACTGTCACAATCGTATCCAATCTATTAACCTGTTTTCTTATACTTATTAAAGT TAATTTAGAGACTAAACTAGTTTGAGCAACCTTTATAAAGTTCGAATTTTAGC CGGAAGTAATAGCAAAGTTAAACAATCCTTTTCCTTATCTTGCATTACAGCCG AGATTGTGGCGCAGTTTAAGCACACGGTTCTGCTCATGCCTAACGGCGTCAA CTTGGTCACCGGCATCCCATTCGAGGCGAGAACTATGTGAGCGAGTACAGT GTTGCGCAGGAGGAGCTCAAGGTAAGCTGCAACAATTTCCTTGTATTCACGA TGCGTACTCAATGAAATCTCAACTTTTTGCAGACTCTGCTCGCGCAGCCTTTG GGTCCTGTGAAGGGCAAGGGTAAGGGCAAGAAGGCAACAGCTGGGGCGCG ACAAAGGTGGAAACGGCGCCGGCCGTGGAGACCAAGGCATAGACCAGCCCG CTGATGATGATCCGCACCGCCAAGCCATCAACGGAAACACAATGTGAACAAT TGCGCTGCCCAACGCTGCGCTCCACAGATTTTTACTATCGAATTCGTTGCGTA TTAGAGGACCCTTTTGACAACAGAACAGGACAGAAGAGAAGACGGCAACAA CGGTCGGTCCCGCCCAACTTTACCTCTTTATTTCCTTTACTATAAGCTGCCTT CGTTTATCGGTCTGTTCAACATCATCGCAACGAAAAAGCAAAGCAAGAACTG TCATCAAATTGTAACAATTTTAACGCTAAATGATCTTAAAATATAATTCAAGT GAAACGTTATTAACGCTGCGTAGTAGGTATTAAATAAAATTAACATTTTCTAT

AAAACAGCCGATAAATGCCAAACGATTTTTCATTTACTTTCCGCTGGCG CCCAATTTAATTCGATTTCGATACGCTTCTCATTCTAATAAATGCACTTGCG AGTTGTGTTTATTTTATACGTTTAATTTAGTTTTGATGTTCACATTCACATTAT ACAATTTGTAATTTAGATTTCTTGCCTTTTGTTATTTTAAATTTTACAGTCTCA TCTTTGAACTCTTGTATTACGAAAGTTGCAAGAATAACTTCGTTATGTTAAAC GTCACTTAGTGCTGTGCTCACTTGGCCACCCCAGTTGTCCATCCCAGATCCAA TCCCAACAGACCAGACCAATTCGATGCCGTATACGGCGACTTTGCCCAACT CGCTGACCTCTTCCCTTGCGTCAAACAAAAAAAAGAACAACAAAAAAACGCAA TTGCTGCGGATGAAGTATAGAAAACACGAGCACCTTGCAGACGACAAAG ATATGTGGCCGGTGATCAAAAGAGGATCTGGGATTTAATGGTCTGCCGTCGC TTTTCTACTCGCCAGACTAATTATTGACATGCACGTCCATCGGTGCGGAGGCG GTCACGTTGCTCGACTTCTCCGGAGAGTCCAGGTAAATCTTCAAGGCACGTTC CCGGCGCTGCGCATACCGCGTGGTGGACACGCAGCCCACCCGATCCAGTCGT GCCTTCTCCCTGGCGTTCATCAGGCGTCGCTCCTCCAGCGTCAGCTCTCGCGC AGGTACCGTCCTATCTCTGTTGAATTCATTGGTTAGTCTAGGAACTGAACTGC AGCGGATATTTGTCCAGGGTGGTGGGCACGGAGTACCAACTGCTGGACTCGT TAACACTTAACGCTGATATGCTTGTGCAGGGGAAGTTGCTGTTCAACTGCAG AGAAGACCAATTAGATCAATATACACAGTAGAACGCAATTTTACGAACCTTC ATATAGCTCAGTTTGTCTATTGGGATGTCGCTGATCTGTGATAATGAAAGTCT GATTTCGCTGTCCTCTGCAGAAGATACGAGTTCGATTTACTGCTTACAGGGCA ATATACAGATTTAACTTACGGTCCAAAGTGATTTCTTGGAACTTTCCAAACTC CAGTTTAGCCGGACACCACCGTCTTACAAATAAAGTCAGAGAATCGTCCTTG GGCTGCGGGTCCACTTCCTCCTCGCACTCTTGCACAATGAACTGAAATGGTGT GATATAAAATCCAAGTTAAGTTTTTTTCTCATCACAGAGACAGGGGAACCCA CCTCCGCTGCGATGCTGGAGCGCATGTCGCAGTAGAGCGTTTCATCGTCGGA CAGAATTTTGATGGGAATACGTCCGCCCTTCAGCCAGATGCGACAGTTTTGCA CAGACAGTGTGGCGTACTTGGCGTCTATGCGATGCAGCTTGGCCACCAGTTCC TTCTTGGCCTGCTCCGCCGTGGTGTTGGCATTGTAGACCCACTCGCATACGCA AGGCAGTTTGGACGTCTCGTTATCAATGTCCGCCAGTCGCAGGAAGTGAATC TTGGCCTTGAACTCGTCCGGCTCCAGCGTCTTACCCAACTCCACCGTCAGTGT TTCGCCTTCTATGAGATGTACCAACGAGTTGTTCTGGTTGTTCGACAGATTAT TATCGTGTTTCCGCTGCAGTTTAAAGTGGGCGGCGGCACTTGGATCAGCTGC TCGATGTGTTTCTTAAAGGCCCCCATTCGCATGTGTGTGCCCACCAGCAGCTT ATAGGCACGCGTGGGCTTACGCAGCTGAGCCTCTTCGTCGGACTGGTGACCA GAACTGGAACCGGTGCCAACCACATCCACGCACTCGACCTTTGTGGCGTAGA AGAAGTGGTTGGTGGTGGGCAGGAGCAGCGGATCCACCACATCGGCCGC CGCATAACTGCCGTTTCCATTGCAGTAGGCATGAACGCGCATCATGGCATCGT GTGAGGCTGCTTCGTCCTCCGGACTAGACAGCTGCGGCGAGTGACTGGTGGA ACTGACTTGGCTGTCGCCTCCACCGCGATGTGCCATGTTGTCCGTCTCCACCA GAGTTCGGTCTCCGTCGCTCAGACTACTGTCCTCCGAGTTGGACTCGTGGCCG TGGCTGGGACTGGGTTGTGACATGGGTTCCACTAGATCTCGCTTGTAGCGCCT CCAATCGTAGTCGTTGCTGGATGACATGTGACCAGGTGCCACGCCATTCATCA TTGCAGCATCCACAACATCACCCCCGCTGGCGCACTGAAAGGACAGCCAAAA 

CGGTGGGCACACCGAGCATCTCAAGGGTCGCGGCATCCGTGTTGGGTACGTT CAAGTAGAAGTATGTTATGGACTTAAACTGGGTGTTGGCCATGTTCTGGAGA TGTTGCAGGGCCTCCGGCGTCGGATGCGGATCGTAGGACACGAAAGCCTTCG GCACCGTGGCGCACCGTGGCGAGTAGGAACTGCTGCTCGCTAATGTGCAA ACGGAGGCGATCGAGCGCGAAGGACGTCGCTGGCTTCCCGCTCCCGCGCT GCTGAGTAAACCAGGAAGGGACCGTCCATCGCCATGGTCGATAGATCTACCT TAAACACATACCAAGTAATGCCGTTCGGCGGATAGACCTCAAACTCTTGGTC CTCGGCCGGTACTCCAGCAGGAAGTCGAGACTGTAGTTCTGCGCCGCGCGC AGTTCGGTCAAAGCTGGGTCTGTGCAACTCTCCAGGGACTGAATAATCGTGT CCATCGAGGAGTTGTAAGCCACCAAACGACAGCGGGAAAGCGGCGCGAATT GTTCCACATTCAACATCTCATAGGCCGACATGAGGACCAAGTTGATGTTGAA AGAAGTAGACGCGCGCTTGTACAAATCCGGAAGAGCCAAGTCCGTAACCGT GATATGCCTGCCCAGGCGGGACACGCGCGTCTCCTCCTCCGAGTGCAGCTTTG GTAGCAGCGTTTTGATGTGCTCAGGAAAGTCGGCCACCTTGGCGACTAGCTC GTTTCTTTTGGCATCCACCTGCCGGTACATCAACATGTATGCATTGGTGCTGG GATGTCCTCTTGGGTGATCTATGGATAGATAGTCGTTCAATATTTTCTCAAGT TATGAATGTGTTGCGAAAACCTACACTAGTCACGTTCTGATCGTTAAAACAG AACCACTCGTTGTTGTCGAAGTCCTTAATATAAGCATAGTAGTGTCCGCCCGA AGCGCTGCCTGAATGAATCATGATGGCGAACAGTTCGTAGAGATACGGACCG GATCCTTGCTGGCGCTCTTGCTGGTGCTGCTCATGTCGATGCCTTCATCC TCGTCGTTCAGATCGTTTTCGTGCTGACTAGAGCTCGCTGTGGTCACCACGCC GCTGCTCAAATTATCGTCCTCCATGGCGGATCCACTATCCGCCGTGCTGCAAT CGTCCACGGTGCCGTTGAGCTGAGAGTTTTGCTCACCGCTGTTTCCACTTCGG TTAATGAACGTGTTCAGGTTGAGCGTCTGAGGGAAGGTCACTCTGAAATAGA GGGCGAGCATGGAATTAAATGCTTATGGATTATGGCAAAGAGACTAACCTGT CGTTTAATTTGATGCGGTGCATGGTCTGGTAGTCAAAGTCAAAGCGTTTAAGG TGCAGCGTGAGGATGTAGGGAAAGGACTTAAAGTGCAGTCCCTTGTGGGCGT CGCATTTTTCTTGCACTTCTCGCACAGATACTGGTTATTGCCATCGAGTGTTT CGGGCTGAACGAAGGCACGCAGAGCTTCCTCGATGCTGCCGTATGCGGAGCT GCTTCCAAAGGGCCTCACAGGGAGCGGGATATCTAGAAAGGTGTCCTCGCGC GTACAGATTAGAGATGAGATTTGCCTGCTTAGTGTTCTTGAATTTGTGCTCCA GAGCGTCGAACATAACTCGGCACAGTTCCTGGATATCGTGCTGCCATGC CTCCGTCGAGTCCCACCCAAAGCTGCGAGTCAGGTCTGTGGTTTCTACCGCCG CTTTGGGCGAGGTCTGCAAGTTGAGGAAGAGCTTTTGCAGTTGGTATGGTAT GTTCTTGGCCTCGTTGTCATTGTCGAACTCCCAGCGGTACAGAGCATTTCTGA ACTCGGGTGTCATAAAGAGTGCCTGCAGCAAGCTGTTTAGATAGCAGGTCAT CCTCTGCCTCAGTTTCTGTGGTGGCCGAGGACACGAAGTCCGCACCCGTTGTG TTGACTCTCTGCCATGCTCGCAACTCATCGCCTCCATACTTGCGACGATAGAA GTTTGACAGAGCCGGGTACGTACCATCGTCTGTTCCAATTGTGGATGGGTCTG TCACTCCGGTCACACCCTCGACGTCCGAGTCACCGGTCGGAGCTCCGTAATC GTATCCAGGTCCCAGCATTGTCGGACTAGCAGATGCTCCGAGTGCCAGGTCG TCATCCGACAATTGTTCAGCATCTGAGATGAAAAGATCTGAAGGAGCATCGT

CCACCGGTGAGATTAGGTTTCTACCTTGTGGATACAGCTGCAGTTGCTCAGAG AGCTGTTGCTCAGGGTGTCTACTGGTTCGCAGTCCAACTCTTTGATGGG TGATGACGGCTTGATTGGACTCAGCAACTCTAAAGTCGGCTTAGAAGTGACC TTGGCCGTTTTCTTGGCCACAGGACTCTCCGAAGAAGTGTTTTTAGAGTTTAT CTCTGTAGACAGCTCGGGACATTCTTCAGGGCTAGCCCTGGGAGCTTTTTCCG AACCGGGCTTGGAGATCTTTGCTGCAGTCGTCTTGATCTTGGAAGTCTTTTCG GGACTTGATTCCGAACTGATGCTGGTCTTAGCCAAAGAGTCCTCACTCGTCGT CTTGGCCTTGCTTGGAGAGGAAGATCCCGAAGCTGGCTTCTTTTTCGTTTTCT CACCAACTACGCGTTTCTTCTCTCGCCGGTGGCAGGACTCTTGGCCTTCTCG CCGTCCGACTTCATAACCTTTTTGACTACCACTCTTTTAATGGGTAACTCAAA GCGTTTGGTCACGTCACCATCCCAACTGCCGGAGGGCAGCAGGATCAAGTGA TTCTTCAGCTGGGGCTCAAAACCAGCCACTTCGTACATCAGCTGAGATTCCAG GGCATTCAGATTGACCTAAAGTAAAGGGGAATTCAATTAGCGGTTTATTAGA ACCTCAAGATGTGCAGATATTTTTACCAGATCCTTGTTATCGTGTGGCTGCAG CAACAGCTCGAACTTTTCGTACGAGAACTGCGTGCCAATAAGGTCAATCACG CGTTTCACCGTGAAGTGGGAGCGGACCACTACGTTGATCTTCTTTTGCTCCGA TCATGTCCAGCCCGCGGAATAATCAAGTGATGGTGGAGAAAACCCTGCAAAA AGATTGTAGGCGAAACGTTGGCTTTACTTATGAATTTTGTCTGGAGTTTTCTTT TTATTTTTTTTTTTTTTTTTTTTTTTTAGAATTAAAAAGGTGACACGACACCTTTG ACGTTTTCGGCGGGGCCAAGTTCCTGGACATGACGATGCTTCTTGGCCCATAG TAAATAAGGAAGATGCCCAGCCCCAAATTACTGCGAAATCTTCTTGTTTTC GACCCCATTCGCGAATAAAGCGGCAGAAACCAAGAAGATTCCGTCCCACCTC CCGCAGCCGCAGATATTGACGTGCTCCGGGTTTGCTTTTCGCGCCTTATTTGT ATACACATATAGCACGTACACCCAATCGAGCATCGACTGCCCCCGAAATCG ACGTCGTGACTAACGCGCAGGGGAATTTCGTAAACAACCGGCCATCAGAGTT GCCTCCGGAGGATGCTACGGGAATTATTATTTGCCTCCAATGGACTACCAAC GTCATCATCATCATGACCATAGCTATCACCATCGGGCGTACCGAATGCAT AAATTTCAGTGCAAATGTCGCTCCATGTTTCAGCTGGCTTCCTTTGTGGCTCC GCCTTCAATTCGGCAGTGCGCATATTGCAAGTGGACGGTGGACATATCCATA TGTACAAATTAATACTTATCGGACATCAGCGTGAACACTGCGAATTATTCTAG AAACATTTGTAGAATTCGAAAGATTTAAGGAAAGCAGATGCTGAATATTAGG CGAAAAGCGATTGAACTACTCTATAATATGCAGTCAAAAATATCATCGATTC GCCTGTCAATTAATTGTATCTAAAATTATACTTTTCGAATGTCTATTTTGGCAA GGGGCCGGGTATTTGCAATGTTTTTCCAATTCTCTGCACCGAAATAACCACA AAAAAGACAGCCAGTCAGCCAAGATATTTTGGGTCTCCTCCGAATGGAGGAT GCACATCCACGATGTGCGATGTGAATGCGCTGCAATTGGGCGTTCAAACACA TGTTGGATGGTCCAAACACAAACCGCATTGCCCGGCAAGGGAGCGAGTGAGA TGGGGATCCAAAAATGCTAATACACGTCGGCCAGCACAAAATCAAAATAAG AAACCCATGCTGCTAAAAATAAAAACTGGCGGCGGCGACACAACGACACAT CGGAGCGGTCGGAAAAAGCACACAGGCGAGTGGAGGAGCAAGATATAAGAC AGCTTTGGGAGCGTCTTGAATACGCGTATATCTGGCTATTTGTGAATGCGAAG GTTTTTGAGAAATTCAGAGAAGCGCACAGACTGTTCGAATACGTCTATCCTAT

TATTTACATGATGACGATGATCTTTTGGTCAATGTTTGTGTTGGTCGGGTATT ACAGAAACCGATATCGCGAGTTATCTATGCCATATACACGATCCAATGGGGG GACGGCGGGAGGGCAACAGTCATGCTCGCATATATTTGTGCTATTTTTGAA CTATTTCGGTACTGCGAAATCTATGTGATCTACAAAAACCATGAGATGTCTGA GATATGACTGCTGAGTGCCGGAAATTGTAGGATTCTCGATTCCCGATCATATA ATGCATTCTCGAACAGAAAATCTCCATTACGAAATGCTTTCTATTCTTAGGCG TCGCACAACTTTAATTGGAGCTTCCAATGTTGTGTGAATAAGTGTGTATATAT CCGTGGTCTATATATGCAACGGATTTTGGTGAGTTTTACCGTCTGTGTCGGAA CTGAGTGTGCCGAAATCTTTCCGAACTAGAAGACCGCACCGTCAACGCACGG CATAGTTCACGCGTGTACTGGCCGCTTAGGATGCCGATGCCGATTCCGATTGC GATCCGAAGATACACCACCGATCTGGCGCCCGATCTTTGGCGAAGCGAGCT ACGTGTTAAGTTCTCGGCGTGATGTACTATAACAATGAGAAACAGTTTACTTA TCTGGCTTACACTTCAATAGGAAAACAATACTTTTATATAGCTTCTATAACTT CGGGGTGCGATAAGAACATGAATACAGATACACGGATTGCAACAGTACCCA AGCCACTTGTTTTAAACAAATAACAGGATAATGGGGAGTAATGTAAGCTATT GACTGGGTTACAATCAGGGGTCTGATAACAATCAAACATTGTCCAGTTGCCTT TTGCGAATATCAATGACCACTCACGAGTTGCAACTGATAACGATTATCGCCG CACAATGCAGTGGGTATTTCACTGGGGGGAACTTTTGGGTCCCTAGAA CCCAGACGGATTACTCAATGAATATAGGCGATATGTTTGGGTTTACAGCGAA AGTGCTATTAATGTCGACCGTATGCTCTCTTCGATGTGCCAGCTCTCTATTTGC GGGAATGAATGACTATTTTATGGGTCTGCCGTCGCTGCTACAATGCTGCATT GCTGCAGTGGGACATCCTTTGAACAGGCGCCATGCCAAAGGATATTCTTTGT GGAAGGGGGGGGGGCAAGGGTTAAGGGTCACATTCGTTTGCGCAATAC TTCCAGCGATGGGGCGGTGAACGGTGGGCGGGCGATCGGTCAAGGCTTCGA CTGTGGAACGTGACACGCATATGTCGGCCGGAGTTTGGCCCAAAAAGTGGCC CCAATGGTTGTCCTTCGCGCTGGCAATTAGTCCCTAGCAAGGCGCGTCCATAT TTTGCAAAAATTCGTGGGGCGCCTTGTTTTCTTCTCTCTGTATGTGTGCATGTG CGGTATACGGCTGCGTTTGTGTGTGAGTGTGGGTTTCGGCTCTACTCTCCCGA TGATCCTGCTCCTGGTCCTAATCCCGGCCTGCTCGGCTGCTCCTGCGTCCT GACTGCGCTAGAAATTCGCTTAAAACGAGCCTCGACGGGTCATTTTTACAATT GTTTTTGTTGTTCCGTTCGGCTGTTTTACCAGACGTGCTCGTTCCGGTGTGAC TGCCCGCCGCTGACTGTAAAATACTAAACGCATTGCAGCTGTGGCAATGCCC CTTTCAGTTACTTTTCGTTGGCTTGAATATTACACTAAGAATTCAATTTGACAC TTGCAATTTATACATTGTATATTATAATATATATATGTATTATATTTTATATC ATATAAAGATATTTATATCTATTGATCTTTTGATTATAAGCTCTTTGGTTGAAC AATATAAGTGCAACTTTCTCCATCACCTTCCTATCTTTTTACAATATGCTTACC TCGTCAATACGTTTTTCTATTTCAAATATTTCAATATTTCAAAGAAATATTTT GTTTATTTTCTGTGTGTTTTTAAGCAATCTGACCCCTGTAGAAGAATCCCTTA TAATATTAACAAATGTATCCTCAAAATAGATCGATCTCTATCTTCGCAGACTT ACACGAAACATTCCAGAACCGATAGTTTTATGCGATATATGAGATTTAAGGA GTACTTTCCGCATTTCGCCATCACAGTCACGCTTTCCTTGGCATTTGCAATCA AATAAGCGCTAATAATAATCGTAAAAGCATAAGAAGCATATAAAGAAGAGT CACCGCCAAAAGCATGCACAAATATATATAAATGGGGAGCGATTTAAAAACA

#### FIGURE 17

dTPR2 5' region, 13015 base pairs

AGACAAAGACAGCGCTGACTTCAGTCGACTTTCGTATTCATTGTTAAATGACA TGCAAATGTACGAATGACATGGCATTCGCCAAAGGGTTTTGAAAGGGGGGCC AGATCCAAAGGGCAGGTCTCAGGGAAATGTTTCCAGGCTAATTGTGGGTTTT ACGCCCTGTACTTCTCCAAATGATCAAGTACGTCATTTAATGGAAGCCACTGA ATGTAGGCTAATATTAGATTTCTGCGCTGAATTAAAATTATTGTAATACGTAT TATAATGCATTTGTACCCAAATTTGACAGACTTAAGCAGTTCTCTAACATAAT TGGCATCATTGGCAAAGAGAAATAATATTAAATTGGCAGCATTGCCAGAAAA AACTCTTCTCCTAAATTTTGCTTGATTGAATGTTGTAGTTGAGAATGTTGTAA AATAGTGTTAGTATTGTAACACACGACATTTTTCAAATATTTAAATGAAAATC ACATGGTAATTAGCAATTTTGGGTGGCCTTCTTTCCTCCCAAGCCAAGCCA TATAATTTCAGCCAGCTACTTGCGATTTCCCCCATGACCAACAACAACAGCCC CATATGTGCAGTGCATTAATGCAGATTTCTTGGCAATTGTTTTTGCATACTTTG TTTTTTCCTCACTCACTTCAATTTCAATTGGCGTGCTAATAACTCATTTAGTTC GCAACAAAAAACGAACAGCGGGCCACAAAAAATGTAGCTACAA ACATGGCACAACAATGGATTGGATGGCTAACCAAGATCGCCCCCACTTC CCTTTCCATCAATTGCGAATATATCGCATCTCATGATGCTGAGAGAATACTCG TACTCAACTATGCCGACTTTATATGAACACTGTGTGCAGTTTTGTTTTAGGCTT TGTAATTATAAAAAATAAATTGAACTATTGTTGCCTCATTTAGATTGAACA GTGAGGCAGCCACAATGTTGCTTTTGTTATTCGGATACACTCAATTAAGCTGA ATTTGCAAAATGCAAATGGCCCGTATGAAACTCACACCTCGAAAATCATAGA TCATTTTGACAGCCCGAGGAGTTCGGTTGGTTCAGTTGATCTCTTGATTGTCA GTCAGTCATTGTGATTAGACATTCGACAGTCGCCGCTATTGTTGGATGGCAT AAATTATAGTCTGTCTCAACAACAAGCGCTGCATATGAAATCCACATAATA AATCAATGTGCTGTCGTAATTTGTGTTAAGTTATTTGTAATCAATTTGAATTCT CGCCGTACCTCCCACCCCCTCGGTTGGTGAGATTTATGGGAATATTTTATT CATTTTGCTATTTTGGTTAAATGGCTTTTTGGGGTTTTCCCGAATATAAGTTTA AAATTAACGCGGCAATAGGCTTAAGATCATGTAATATTATATTGCCCGTA AACAAATGCTTTCTACTTTCATTATCATGAGTGTTTTAAAACTCCACGACTGC TCTAAACTTTAATCTTTAAATATTTTTGTACCCTTTGAAGAACTAACCACTTAG CAAATCCCTCCTATTATTTCCTCAAACTCTTGCACTTATCGAACTCGCTTCCTT TCCCCGCCATCTTCACTCGAACAAATTTAACAACAAATTAAACTGAAATGCA GTCAAATCAATCGCTGACTTTTCAATTCGTTTTTCCTTCTTTTTCGGCCCAACA TTTTCCACTTGGCCCGAGCGTTTTGCATAGTCCATGGCTTCGATTGGATCGGC TCGGATCGGTTGGTAAGTCTTCGGCGGAGTATGGCTTTAGTCCAATTTAGTGG AAAGGTGTGCCCACCAGCTCGGTCACAACACGTTGCTGTGGCTCATTGGAGT TTCGCCTTTGCCTCGCTGGCTTTTGAGCCGTTTGGTCGGTGCCGCTTAAACGC CGTTTTAGCCAAGTTAGGTGAAAAATGCCAAGGGAGTGAGGAGTGGAGACC GAACTGTCAACTGTGATCAAAATCAATTGTTTGCCATTTGCCAAACCAAATTG ACTGAGCCAAGTCAGTGCGAGTCACACAAAAATGCTGACAAAATTATACCAT AACCCATGAAATGTCAGTGTCAATAATTTTTGTAATTATGAGAGCATTGAGCT TGAGTACATAAAAAAAGTTATATATTTAAAAAAATCATTATTTTAGTTGGC

TGCCATTGGAGAAGCCCCCAAAAAAGGCAAACAAATATAATAAAAAATTATT GCAACGTAAGTTTTGATTTGAACAAAAGGCGTATACAATTGGATGAGCTCAA GGTTCGTCTCAACATTTTCAAAAAAATTACATAACTTTTAAATTTGATTTCA GTTTATTTGTAAGTGAGAAGCCTATTTTCTAACCATAAATTCTGCACGTTAAG AGTATTTCCTTTCATATCGTATCTACAAAAATCAATCCAACACACCTGTTTCA TCTACCGTTAACACCGTTAAGCCCCGCCCCATTTTCTTATCGAAAATATAGCC AGCTGGCATATCCTTTCGACTTCCGCCATTCGAGGCTCGCCCAATTTCCGTTT CGAGTTTAATTAATAAACAAATTCTTTTCGCTCTAAAAACTCTCAAGT AAAAAAAAAAAAAAGTAGGAGGAGAAAAGTTATTGCCATAGTTTTTTT ATTATACTTGTGTTTTACCTTTCTGGTGGCTTGATCGATAGGCATCTGCAATT AAAAAGAGAAGAAGAGACAAGTGAGGCAAAATTGTTAAACGTTTTGTG CTTAAATTCGGGGCACAAATGCTGAAAGGGAAGTTTTTCATTGACGGGTTCG TTCTGACGGACTTGCATTTTGGCGGGCAAGCGGGTGTGAAAATGCACACGCC CCGAGAACCCCCTTTCCACCCCCCTGGACCCCTTTATCCAGCCCACTGGCC AAAAACAATTTGTAATTATCCACAGAGAGCGCTGCCTTCAGCGGTTTCGCATT TCCCCTTTCGCTCGCTCTCCCAACTTGTTTCAATTTAGCGCAAAACTTTTTCAA CCTAATAATAGGTTTAACCGCATTTTTAACCGTTCCTCATGTTCGGTCCGGTTC GGTTTTCAAAACCGGGAATCGTACTTAGACTGGGTCTCCTTATTTCTGTTCTG GCTCTCTGTACAACTTTTCATTGAGAAAAATGTAACTAGTTTTTCATAGCAAC GGAATACAATTTAATCCAATAATCCAATAGTTTAATCCAATACAAATGATATT ACTACCATTTCTATTTTCGTTAATTTCGATTTGACTTATTTGGCTGGATTTACT TTTCAAAATATGTTATCAATAAGACACAAACCTTACTTTCTAGCTATTAA CATAGTTTAAAAAAAAAAAAAAACTAATAAAAATTACGTGAATCTAAATTTT TAAACCCGATATCCAAGAAGATCTCAATTTTTGCCTGTGTACTCAGTTCTCTG AACAAAGCGCATGTGCACTTTGGAGCACACTCCATACATGTGGCTCAGCCCT TTTCCATAATTAACTAGATGGTTTTCCATCGACTTCATTGTGGTCAGCGGCCA GTTCAACCGTTCTTCACTGCAACCGAGAACTGTAAACACAAAAACCCCAGG AAGAAGGGATATTGAAATACAAGGTTGTAATCGTTTCGACTGTTGATGTCTC ATGTTTAAATATCCATGAAATATTTGGATCTCCTGGGGATCAATCGGAATATT AGCCTTTAATTGTGTTGATCTTTTAAGCCTTTTTGTATCTAATCTAAGCCATTC GATCTAATCACAATTTATAAATATCTGCATATTTCTGTATAAGTCTGCATCAT TTGACGTAACTCTTTAAGTCTTTTGGCTTAAGTTGCAACTATAAGGAAGTATT TATTTTAGAGACACAAATATTTCAGTCGCCTTCATTTGAACAAATCGGCGAAA ATTGGCTAGCTCGCCAAACTTTCTGTAACCAAGGACAATGGTTTTATTTTAAA CCATTAAAAACTTTAGACCCACTAGCTCCTAGATCCCCCTCAAAAGATTTAAA AAAAAAAAAACACGATACCCATTTCTACTGAACTTCGTTTTTGCTTGTCGTTTT TTCCACTCGAACGGAAATGAGCTGACAGCGCACCGCACACGTCGATTGCAGA AAAACATCGGATAAAACAGGAGGAAAAGTTGTGCAAGGTGGAAAACTGTTT GCAAGGGTCACCGGGGAGCGTTACGTTTGCATTGCGTATTTCCGCTAAATGT



CATCGGAAAAGGCAAACGCGAAATGCGAAACGAAAGTTTTTTGATTGCCCG TGTTAATCGATATCGATGCACAAACTATTTGCATTGCAACCGTTGCAAGAATA TGCAAGAAGTTGGGGGCGGCCGCGCAGGGGGTGGAAGTTGAGTGCGTAAG TTGGCTAAAGCGGAAACAGGAAATGAGAAAATTTTGCAGAGCAAACCCCGA ACTGGAAATGCAACTAACTGGGCACATGCACTTTGCGAAATCATTGGATAGC GTTAAGAAATTTATTTTAAAATTGTAACTAACATTTAATCGTATTCAAAAGCA ATTAAATCCCAATCCAATTCTTATATAAAATCCTTACAAGATTATTCTATTTA CTGTAAATCTAAGCAAAAACTCCCTTTGCAAAATATTCGCCTGCACAGCACA GATCAGTGAAATAATCAAATGAAGTCTTGAAATAACGAAAAACCCCCAATTG CGTGTGGAACTGCCCCAATGCTTTTGCTTCGGTTTCGTACCTGGCCGTGGTG CAGTCCCTGTAGAGGATGTCGAAGTCCTTGCAGCAGAGCAACTTGCAGCGAT TGACGCCCGGCTGGATGGCGCCCAAGCCGCGTAATATGCGCACCTGTTCCAC ATTGCAGACGAGCGGTACGATGTCAAGGCGCTTTAGTTTGGTATAAACCGTA TGCAGACCGCCGACCAAGTGCTTCAGGAAGAGCTCGAAGGCCTGCGGCAGGC AGAGCATCGTTCGTTGCTAATTATGAATGCGGCGACCTTCTGACCCCGGTAC TCCACCAGCTTGCACTCATTGGCACTGGGATCCGAGGTGGAGATCGGCGGCG GTGAGTTGTACGACCTTGGCGGCACATGGTGATGGGCGGCGGCCATCAGTTC CAAGGGGGAGCATGGTGCATCATCTGCAGGGAGTTGAGGAGCCCCAGCGA ATGGGGCGCAGTCCATGGGGCATTCTGGGCGGTAGGCCCGTCGGCAGTCCG TTGCCGATGGCATTCCATGTGGCGGGGGGCTGAGCTGATGGTGTTGCTGCTG CTGCTGTTGCTGCTGTTGTTGCTGCTGCTGCATCTGCATCATGGA GTGGTTGAGGGAGCTCACCGGACTGACGGCACTGGGATGGCGACTTGGTGAA CTGGCCGGTGAGCAACTGGATCCTCGTCCTGTGTGCGAGCTCCGTCCATTTGG ACGATCCTCGTTGGCTCCACGCGAACTGTTGCTACCGTCGCGTCCATTGTGCT TGCTGCTGGTGATGCATCAACATGGCGGTGGTGTTCATATTGCCCGCGGCTCT TTCAATACCACTATTAATATTGTTATTTATTGCGCCCGCTTTATTGTTGTTATT TTCACTCTGTTCACTTGTCACAGAATCCATACTTCATCATGGCCGACACTTTTG TTTATTTACTTTTAATCGATTCGTTAATTTGACGTTTTTTCTATCGTGACAAA AATTTGACACAAAGTAAGGGAGAAATAGAAAATAGATGGTGAGAGGAAGAT AAATAATTAATGAACTCTTAATTCATTTTTAATTATTATTAGGCTTCTATATG CAAATTCTAAGTGAGCGTGTCTCGTATATTCCTATCCGCTTATTATTGGCTTTA CATTTTAATACTTCTGTAAGTTTTATAACATCAAATTTAAATGCAGACCTTC AAAAAATTTACAAACGATTTAGGATTTGTATTAGGCTCAGCTATGCTCCTATT TATTAAAATCTATTTTGAGCCAGTTTAGTTAGTTATATGGTAGCTACAAGTT AAGAAATATAGAGAACTAACAGAAAATAGAAAAGTTTCCTTTCAGACATTTA AAGTCCGATTATCTTCTAATACCCCCCATAAATAATCCTTTATCAACAGAACT ATTGCTTTGCAAACTTTGCTTTAATTAAGTTTTGGGAAAAACAAGGCAATGAA GCTAATTTGGATCCTTACTGCCAATTTGCATAAATATACCTATTGTCAGCTTT ATTTGAATAATTCGATATAGAACATAGATTTACCTTTAAGGAGGTCTAAAAGT AATTTATAAACTCAACATCACTGACACAAGACACTCGCGCACTTTGCTTTTTG CCGCTTGTGTTAATCGAGTTCGAATAACCGTTTTCGTACTGGAATTTTGGAAA CCGGAGCTGTCCGTTTTCGAGTACCGTACCGACGGATTGTCACTCAGAGAT TGAGAGATGGCAGCTACTCCGCTGCGACGGCGACGGTGGCGTCGCTCT



GCTTCTTCGCCTTCGACTGGTTCCTCTTCCCCCTCTCGTTCGGAGAAATCAAC GAAACGAATTGCATTCGAATGGGAATCGACTGAGAGCGAGACGGCGCGAGG CGACGACTGCGAGTGAGCGAGTGAGCGGGCGCTAACGAGTGCTATTTTTTA GCCCACCCACACACACGTACGTACGTACGTACACACGAAGCGCTACCGTTAT GTACTGAGAGAAATGCGCGCGCAAAAGTTTTATTGCATTACCTTCTCTTGCGA ATGACAAATTCGTAATGAAAGGCGAGTTTCAATTCGATTCCTTTCGGATTTTC GTGGCAGCGACGCCGCAGCGCGGTCGGCCGAGACGAGTGTGCTTGTATGTG TGTGTCTGTGCCTGTGAGAGCGAGCTGGTGTATCTGTATCTGCGATTGTGCAA AACCAGAATACGAATACGAATACGAATGTCTGTTGCCCGTCCACGT CTCGCATTACACCAATACCAGGCCAAAAAGGGGAGTGGTATGTGCGATTGAT CGGTGTGTTTGCATCTGTGTATATTTCTGTGTGCAACCCCGAAAATACAATGA ATCTCGCCATCTCTGTCGCACGCTCAGGTGGGCTGCAACCAATAAACACGAG CGAGCGAGAAAGCAGCATATTTGCATAGCCAGTCGTACATGTTTGCGCTCTC GCTCGCCCCATGGGCGACGCCTTATATAAACAAATGACAATTGTTTTGGCAT TTTGTGTTGCAAAGTAAATTATAATAAATGCATTGCCAGAGAAGAAAAGTAA AAAAAAATAGCTTTACTTCGAGTTTGCGCAGCTGTCTTTGACAAAAAGCATTT TAATTTCAATTAAAAGTAAATGACAAACTTTCAACGAATTATACTTTTCGGGG CCGTTTCCCATTCGATTCGAGTCCCGTTTATTTGTATTTCTTTTTGTGTT CTTATAAATAGCATTGCTTATAAATTCTGGCATCGCACCTTTGCCACCTCTAT ATGTTTATGTACAATGTATCTGAGAGCTCGGTCATTTTTCTATTATTTGTCTTC GTTTCGCCTTCTGCGATTCTTCTCCATAACGATTGCCATTCCGTCGCCGAACC TGGGAATGGAATACGTCTTTATGTATTGTGTTTTGCACATGACGTATGAATTTT TCTTGTTCGTTTCGTTTGGGGCTTTTCTTTTGTGGATTTCCTCACCCACTGTCTT TTAGGTGACAGCAACCATTTAATATTAAATTGATTGCAAATGTGGATTTCCAA CAGCTTTTAGAAAATATTTTCGGGCTTTAAAGAAGAATTTAAAACACAATAA TTATAAGATTATATGAAAATTAATATGTAACGCTACTTTTTTCTA AACTGTGACATTTTAGGCTATTTTTTTTTTTTACCATTTCCTTATGTCATATGAA TTTCATTTAATTATGACATATACATGAATCGCTGGCTTTAAATTCGAATAAGT AAATTTGTTTTCCCCCCATAAATGGACAACAAAAAGGTACTGCCTCTATCATC CAAGTGTCAAAATATGTCATAGCAACCAACTATCGTCAGTAAGAAATGAGTT CTACAACATGCAACTTTTTCATGGTGTCGCAACTGTGGGCGGGAAGTTTGATT TTTCGCAACAACAGCTCGCTTTGAACTCTGGTTTTTCTCTTTAATAAATGCA AAAGATGAGTTTATATTCTAAAAAAAAGGAGGGTGATTAATTTCTATTAGTTT GGATTACAAATTTGGACTAGGAGTCAATTTGAAAGTCGTTATATCAATAATA CTTCTGGACTTTGAAGCGACAGTTACTGTTCCATAACTTCGGATTATCAGCTT TGCCTTCACCACATATATAGAGTATTCTCTGGATGTGTCGAGATTTGTATTTTT

AAACGACGACTGGATGGCAAAAGTTCAGTGCGCTCGCAGCTATTATGTGGAT TATCTGCCTCTTGCTGGTGCCCCTTGTGGCGGCCAGTTCCAATACAAGACTTC TAAATGGCATCCTAAGTCATGTGGACAAGGAAGCCAATCCCTGTGAGAACTA CTACAACCACGCCTGCGGCCAGTACAACATGCGTCACATCGACGACACCTTC TTCGACATTATACAAATGCTGGATCACCAGGTTAACCAGAACTTGGTGAAAC TAATGGACGAGCTGGAAATGAGTTCTCAATTGCCGGACTTTAATGTATCTAGT GTAGATGCAAGGTCCTTCGTTACTACCTTAGTTGTCGTGGAGCGCCGCGGA ATATGGATAGTTTAAGCCAGTATCTGAAAGTGATTTCCCCCGGCGAAGGACT CACATGGCCTCAATTCATTCCGGACGGTAGTTCTTGGCCCCAGGAGAATTTCA TTTAACCTTGAAGTCGTGTCAAACCCACGAAATGCCAGCGAGTACATGGTAG AATTAAATACACCCACTTTTGGAGAAGAATCTCAACTGCCGAACAGTTTTATT GAAATTCTATCCGTTCTCTATATCATAAAGGTTCCTTCCAGTGAAATCATTAC TCTGGCGCGAAAAATGCGAACGCTTGAATTGTTGCTTAAAACGATGATCAAT CCGATCGACACACTGAATAATAGATACATTAGTATCCGCGATTTTCAGATGG AAACCGGTCACAACTGGCAGCGTTTCTTTGAGATTTTAATAGGCTCCAGCGCA GCCCAGAACTCCAAGTGTTGGTGCGCAATTTTAGGTACTTTACCGCCCTTAA GGAACTAATGGACAAACAGGATGCTCGGCTGGTGGCCAGCTACATAATGACC CGATTTGCAATATTTCTATTGGATGAAACCATGGGTGGCAGAGAATCCACGG AGTGTGTGTCACAGGTGCGCCGCAACATGAATTTGGCTGCAAACATGCTCTA TAAGGAACGATTTTTCGAAGACTCCACTTTCAGTGCCAATATCCTGGAAATTA AGGACATTTTCGAGAAACTACGCCATCAGTTTCTGCTGCAAGTCGATCAAAA CAATTGAGATCAACGTTGTGAATCTTCCAAAAACCGATGATCTTCGCCATTTC ATCGGCCAGTACTACCAAGACTTGCAGTTTCCCACTGGCGAGCTGGATTACC ATCAGGAGCACCTCAAGGTGCTGCAGTTTCGCACCCAAAAGATGTTGGCCCA ATCCAGCAAAGGGCACTCAGAGGAGCAGAATATTTTGACTTACAGGAGCCAA GCGCCCCTCCCCCCCTCGTACTATGTGATGCCCCCCAATGTGATTATT GTCCCCTTGGGCTACTGCAAGAGCCATTCTTTCAGCTGGAAAGCGAAGATG TCTTCAAATACAGCCTGATGGGATATATTATGGCACATCACTTGATAAGCGCC GATCGCATCGTTTCGAAGAAGCAGTCAGTTGCTTGTCACGCAATTCAGAGAA CATCGATGAAAGCATGGCCGATATTGCTGGTTTAGAACTGGCCTATTTTACTT ATGCTAAGATGGCCAAGAATCGAAACCGTTTGGATTTCACCCATTTGCCACC GGAGCAGATATTCTTCCTAAATGTTGGCCAGTTCTTCTGCGGCAATAGCGATA TGTTGGTTCAGTACAAGGAAGATCAAGTGCGTTTACAGCGAGCTATTGAAGG GTTTGAGCCATTTGACAAGGCTTTTGGGTGCTACCGCAATAAGCCTAAGCAC GAGAAGTGTCGTTTATAGTGAATACCTTGTACATATGCTTAGAAATACATATT TTTTGATAACAATAATACAAGACAATCGTGTTAAATTATAAAAGTGTTACAAT CACATCCATTCTGTTCTTTTAAAATTAGTTTTAAACTAACAATAGTCAATAGG CTAAGATAGTTAAATGATCATCATTCGAATAAACAACGTTCAAGATTGACTCT AAAGTTATACGTGTGTTACTTACATGCATTACATTCGGGCCTGGCCATCCACT TAATATACTGAGATGTAGCGGTCTTTGATTTGCGGGATCTCTTATGGATTTTA GAACATTGTTAACTTTGCTGACAAAGTAAATTCAACTTTTAACGACTTGTGGT GTGTGCGGCCCGATGAAATGTCTTAAAATACAAATTAAATACAATTCAAATA

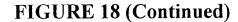
TAATTCAGACGTCAAAAGGTTTAAAGTTAAAATATATTTTACCTTTTAGTGTT ATTTATACGTATGAGCCTTGAAAACACAGTTGAATATCAAACGGATTTTTGTT ACCAACAGATTCCAACAGATTCTCCAACTTTCGTTTTTTGATTGCCTATTCACT CGAAGATCTATTTCCAGTACTATGATCCTCCATAGTAGAGTCAGCTCAGGATC TTGTGATAATCCGCAAGCAATTCGACAAAGAATTCGTCGGCCAGAACAAAAT TTATTAAATCATTGTAGTCATTCTCAGGATCTCTCTAACTGGCAATCCGTAA TAACGTATTTCATTATCTCCAAAATACAGTCGGAATTCAGATTAAATTTGCCG TTTCCGTCCTTTTTTATAAATATACATACAAATATACTAAGCAATAGACTGAA ATGAATTCTAGAATTTGAGGAAACTAATTATGTACCTTTATGAATACTTTTCC TTACTTGTACTAATCAAACTAATTTTTAACAGATTTTTCATGCCGAATGATTA CAATCTTATTTGGATGATTTGATAGAGCTTAGGAATAATGGTTTTAATTTTGG ATTAAAGAGTTGCGATTAAGAAACGAAGATATTATCTAGTTTTTGAAGAACA CAGGGTACTTTAAATTTCGCACGCGGAACGTCAAAACAAGAAGAAGTTTTCA TCAACACTGAATTTCCGCTTGGTAATCAGCTGATAAGCGTGCTCACGATAGCC GAGTTCACATCCAACAGATGTTTCCCTTAGCAGGGTTTCAGACCCAAATGATG ATTTATCTTATTTTGATTAAGCTCCAACACGCATTGCTTTGCATAATTCAGGTA TTATTAGGCTGCTTAATATACAATCCACTTATATTGTTGTCCATGAGGAAC ATCGACACGTGAGGATAAAAATATTTATTTATCGATATATTTTTACTCTTGAG CCTTTTGCACACCCCTAGTTGTGTTCCA

#### FIGURE 18

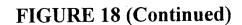
dMLF 5' region, 8374 base pairs

GCCTGATTGTTTTCCACTTTGCAGCAGAGGAGCCGGGAAGGAGCGGTAGAGG CGCACCCAGTGTATCCGGCAAAGGCAAGTCACCCCAGGTGCGTTCCATGCCC AGCTCTCCGCTGCCTCAGCGATCCGCTACGCCGACGCGGCTGATGAGCCAAC GTGTCCGTGAGGCGGCCGAGCGTCTTGCCCAACAGCACACGGTGGCCAGTGC TCAGCGCATTTGGGCAATGGGAGAGGCACTGGCACTGGCAATGGAAATGGC AATAGCAATAGTAATGGCAATGGTAATGGGAACACCGCGGAGACGAATCGC GAATCACGCGCGCGACGTCTCATCAACCGATTCAATAGCGAAACGCAGCATA TCACGTCCTAGTTTAAGTCGGTTAAATGCCGACGAGCATAACTTTATTACAGA AAACTTTACGAAACACTCGAATATGAATGCGACTGCGGATCAGCATCCCACC GCATTCAAGCGGATGCACTCCCTCCGTTCAGAGGGAACTGTACTTAGGCTAG AGGAAGCTAAGTGTTTAAATTATTGTATCGATTTATATACATATTTACCATAC TAATTAAAGTTAATGTAACGAAAACGCAGGATCAGTAATCTTATTTAGTTCA ATGGTAATCAATGTGCGATTAGCGGATGATCGCGCTCCTTGAGTCGCACCCA CAGTCCGCCGGAGGCTCTCAGCGTAATCCGGAAGGTGGCCGCAATGGTTGTC TTTCCGGTTACAGGAAGCAGCTGGTAGCTACGCAGCAGCGCGACACTATGG TCTTGATCTCCATGATGGCGAATCGATTGCCAATGCAATATCTCGGTCCAGCG CTGAAGGGTAAAAAGGCGTAGGGATGACGGTTCTCGGAGTTCTCGGGCGAAA ATCGCTCCGGCTGGAACTTTTCCGGATCGGGATAAATGTGGGCAAGACGATG GGTGGCATAGGGCAAATGAAAACGTTGCTGCCGGCGGCCAATGTGTGCTTT GCCAGGCGAACCTCTTCGCCCAGTTTACGAGCAATAAGCGGGACACTGGGAT ACAGACGCAGTGCCTCCTTGATGCACATCTCCATGTAACGCATCTCGTGCAGA TCCGTCATCGTGGGAGCTCTATTACTGTCCTCGAATATGGTCGCCAGCTCCAG GACACAGCGATCCTGGCACTCGGGATTCTGTGTCAGCAGAAAGAGAGTGAAA GCCACGGCGCACCCACCGAATCCTGGCCAGCCAGCATAAAGGTACAGGCCT CGTTGACGATATCCTCCTCGGTGAAGTCCCGATTGCTCTCGGAGATCTCGATC ATGTGGTCGAGCAGACACTTTCGCTCGCTATTGCCATTATTATTGTTCTGGAT TTGGCGACGTCTCTGGATCATTTTGCGTGTGAAGTCATTGAGGCGCTTCTTCT GGTTAAGCTCATCGTTGGCCATCTTGGTCCAGTGGTAGATCCCGTCCAGCAGC AGCCAGGGTTGCGTAAACCGCGCGGGCATCATGATCTTGCCCTGGCGGAACG GCGAGTCCTCCATCATGGCCACATCCTGACCTCTTTTCTTGATCGGCACACCC AAAACGGCCTCTGCAAGTCGTTCAGGGATTAAGTGAGAAATTATAGCTTGCT AATCCCCTAGAGACTCACCATTTAGTATGTCCAGTACACAGTTGTTCACGTAC TTGGCAATATTTATCTCCGTTCCCACGGCTTCGGCATCCAGATTCTCGTACAA CGATTGCGAGGCATCCACAAAGGTGTCGATGAACTTCTCCAGCAGATTGTGA TGAAACGCTGGCTGGATGAGCCGTCGATGATTGCTCCACTTGGAACCACTGC TGGTTATCAGCCCATCACCCAGGAAATTGTGCATCAGTCGGTAGAAGAAGAC CTTGTTGGTGTCTTCTCGAGGAGAGTATCACCTGCAGATCCTCCGGCTCCA GGACAGCAAAGAAGGGAAAGAGCAGCACCCAGATCCGCACCAGAGATCCAT ATAGATCGAAGGCCTTGCCGCACATCTGCGCATCACTGTGAAATGGGATTC AATTTAACTTAAAAGGTATCTTTCACGAAAAGGTTTCTTCAAGGATCTTACAG

TCCTTATCCGTGACCAGCATGCAGTTGCCCAGAAATGGCAGCGATGGCGGAC CCGTGAGTCTCAGCGAGAGGAGAACCGATCTCAAGTACGTGTTCAGGGTGGC GTAGAATGTGTAGATGCTCAGGCTGATCACCAGGAGGATCAGAATGGAGCAT AGCTCCAAATTGGTGGTGCGCTCCAGCTGTGGGGGCGAAAGCAAACGTAAAT GCATTGGGTCAAGTCGCGTGGATAATTGCCCGCTTAGGTCAATATTTGGTTTG CTATCGAGAACGCCGAGCTCTTGAACGCACTTCATCAGCTACGCACTGCGCTC ACTGGAGTCTAATTAACTGAGGAATCTTGGAGCACTTAGGCATTCGAACTTG GATGCGAGCACTTGCCCTTGCCGCGTGTCGCAAGTTTTCGGCAAACACACGTT ATCGTAATCGCAACGAAAGTATAAGTTATGTATCTAACTGCGGTGTGAATTG ATAAGATCGATTAAAGCACCACACCGTTCATGTGTACGTGTTGCTTTGCTTTG GTTTTTTTTTTTTTTTGGGCCATTCGCGTCGATGTTTCGTGGTGCAACAG GTTACACGATGAGCACAAAACATGACAAATGATGATGATCACCGGACAAAA ATCCAGGGACAGCCTTTTGTTGCCCACACTTCCCACACCTGTCGTCGCCCCAC GTTCTGGACGAGAGTGAGAGCCCCAACACCATTAGCCAAATGCGATTGGTTT CAGGGCCAAGTGAAACCACCGGTTGGTTAACTGACTCAGATCTCAATGATTA ATTTATTACGGACAAGGAATCGGCAAACGATCGCAGTTGGTCATCATAAAGT TTATCCAAAAATCTAGGTGGCATTCCATTTAGTGGGAACTTCTTACCATCAGT TCGTAGTAAGCTAAGTTAAAGAGTAAAATAATAGGCGCTTTTAATCCTCCTCA GCCACCTCATCCTCGTAGCCCTCGGGCAGGGCATTCACCTCGGCATTGTGAAA CAAACTGCGATTGCCATCTCCCCATGGGAATCGTTTGGTCCGCCGCCTCAGGT ACTCGTACTTGGCGAACGCTCCCGCTCCACGTGCTTGTGTCCGGTGAAGGCG TTTGCGGCGCACAGGACGATGGCCGGTAGGGCCAGCAGGAAGGTGACACGC TTCCACAGACCAGCGGTATTGGCGGGCATATTGCCCATAAGCCGGATATCAA GGCTAAGCTAGCTTGAATTTGAATACTACGTACTGTAGCGATTTGAATCTGAT CCGTAACACCCACGCCTGCTGCCCGAAACTATTGTCGCAATTAGGAACTCTCA AGGGGATCCGAGCCAGCGCCACAAGGTCCAACAACCCGCGTATCTTTGTTTA ATCAGCCCAATATTTGACCAGAAACCGCTGAAGCGTCCAGAAGGCTTGCGCT CTGCGAGGTGTGCAGAACCCGCGCGTGTTTGCTCGCCAATTGGCACCTGGC CACTAATAGATATACATCATGATTATTTCCCACTAATTCCATAAGTTATCATA ATGGTCTTCCTAAACGAGAGGCTGCTTGTCGAGGCACTAAGACCGCCCAAAA TCTAACGATCCATTGAGATTGCGGTTAAAAATGATTCAAATGCAAGCGAAGT TACTAAAATTTGTGAGAGTATATCTAGTTGAAAACTTGAACTTGAAAATGTG GTTTTCATAAAATTATCCAAATTGATGGGTGTGAATTAAAATTAAAATAAAAA GATTAAATAAGTTATAAACCTAGATCATTTCACTTTAGTATTGGTAATGA AATTTAGGTTTATATCCTCACTCTTCTTAAAGTAATGTAAATATTTGTTATC CTTTAGGAAATACACCTTATTAAAATAATTATTTTAAAATTCTATTAAAATTCTT TTAAAAAACGGAAACGTAATAGCCACCATTTTACATTTTACTTAAACGTTTTT CCTTTTCTTTTTAAACTTTAGCTGTGAGTAATCCTTTTTATTCATAACGAATT GCGTTTAAATATTTTATATTTTCTTCACTCACCACTTTTTCCACAAACATTTT AGTCACGTATTTGTATTCCCTTGATATAGTCAATATATTTTGTTTTATCTTTA



ATAGCTTCACACAAAAGTCCTTGCCACAAGCACTGTCCAAATCCACACATAC ACCAAGTTAGTTAGCTCCACTTCGATTTGGGATATATCCGTATTGTGATCTTA TTGGCCAGAGTCACATCCGGCGACTGATGAGCTACGAGTGCGGGACCTCCGC CGGTTAGCGTCTATTTATAACCGATTTGGCCCGATCAAGCTCGGCTTGAACGC CGCCGAAAATGATGTACGTGCTAGCTAAGTCGTTGGAGTCCCCGGATACCCG AATCCCCGTATCACCGAATCACCAAATCGCCGAGTCGCCGCGTATCCGCTAG ATGCCCGAGTGTATCGAGTATAGGTAGTAATTGCCAACTAGTCGGCACTCGA AGTGCTAAGTAGCTAGAAGTGGATATGGTGCTGGATGCTGGATGCCCCTGCC AAGTGGCATGGCAATCAATTATCCGTTTGGTGCTTGTTTGATGTATCCCTCCT CCGCCACCGCCACGCTATCCACCTCCTCCATGGAATGGCAGACCCTTTGGGT TGCCAGTGGCACTCAACGATCTGAGCGGTGGGAACGAGGGGGAAGTCAGCT AGAAATCTTCAGACGCGTGCCAGTGGATCGAACTTTGAGCGGATATTCAAAT GTGTAGTCGTCGGATCTTTGCACATTCACATACTGTTGCTTTTAACGTCATCAT AAATTCTACAAAATATATTCGGGATTTATTTCCGCGAAATTTTAACCTTTGCT ATCATTCAGTATTCCTAGATGTGTTTAGTCAGTTAAGATCGTTTGAGTTATAG GTTTAGAAATCTTGGAAATTCAATAGCGCATTGGTTACTGATTAAGAGTTATT ATCAGTAAGAATATTATTAGTAATTATTATTATGCCAATCAGACCGATTAGAC TACCACTTCTTGTACTTTTGCTGCGAGTTCTCGTGCACCACCGATTAATATGGT AAATAAATCTCAGCCTGCTTTTCCAACACCACTTATCTGAAGACACGATTCCA TGGAGCACATGGAGATTGAGATTACAGCCATCGACTAGACGCCTTCGTCATT CGGATCGCTTTGCTGATAATCCCCATTTGTGTTCTCCTTAGCTGGCCAGTTGA CTTTTTGGTCAGTTGACTTTCTGGCCAGTTGGCTTTCTGGCCATTTGGGTCTTT AGAAGACCACCGCCCAGTTTATAATGGATATAAAACGAATTGAGCTGCAAGT CGTATAAACTTTACGATATCATAGCAGAAGTTTATGAAAAATCCAAAATACCA ATCATGGATGATCGCTAAATTCGCCATTTTGGTGATAAGTGATAAGCTGGCTA CTCCAGCCCTATATAAGAGACCTAAATCGAACCACACTTTAAGTTTAACCATG TCGCTACGTTTGGGTTGTTTCTTTTGGCTGCACTTGGTGTGGTAATTCTCACG GATTCCGCCTCCATAAGCACCCACATTGTTGGTGGCGATCAGGCGGACATCG CTGACTTTCCGTACCAGGTGTCCGTTCGCCTGGAGACCTACATGCTGCTCCAC ATCTGCGGTGGTAGCATCTATGCACCACGGGTCGTCATCACCGCCGCCCACTG CATCAAGGGACGCTATGCCTCGTACATCCGGATCGTGGCTGGTCAGAACTCG ATTGCCGATCTGGAGGAGCAGGGTGTTAAGGTCAGCAAACTGATCCCCCATG CCGGCTACAATAAGAAAACGTATGTGAATGATATCGGTTTGATCATCACTCG CGAGCCATTGGAGTACTCAGCCCTGGTGCAACCCATTGCTGTGGCCCTGGAG GCACCGCCGTCGGGTGCCCAGGCCGTTGTAAGTGGTTGGGGCAAGCGGGCTG AAGATGATGAAGCTCTGCCCGCCATGCTGCGCGCCGTTGAGCTGCAGATCAT CGAGAAGAGCACCTGCGGTGCCCAGTATCTGACCAAGGACTACACGGTGACC GATGAGATGCTCTGCGCCGGCTATCTGGAGGGCGGCAAGGACACCTGCAACG GCGATTCCGGTGGACCCTTGGCCGTGGACGGAGTCCTGGTGGTGTGTC CTGGGGCGTGGGTTGCGGCAGGGAAGGATTCCCGGGTGTCTACACCAGCGTC AATTCCCATATCGATTGGATCGAAGAGCAGGCGGAGGCGTATCTCTAAAAAT GTGGATAGCTTCACAAGCACAACGCGAACAAATAAATCGAACAAATTATTAT TTTACCACAATAATAAATATGAAATGAGCATTTAGAAAACATGGTTTATAAT



ATATTTACAAATTAATATACGGTGTTTAACTCTTCATTTCAACTGGTTTTCCTA ATCAAAAACCTTTTTTATCTGACCATTACATTGGAATCTATAAGCCATTCTCG ACGATTTATATAAAAATAAAATTATTACCCAATTGGCATAGGTGAAGGCAAT TTATCTTGAGGAAGGGAAAAAGTACAATGTAACTAACCATAAATTTTATACT TTACAAAATCGTTTGATTGCATCATTTTAGAATAACTCAATGCAGAAATTAAA TTTATATTTGACTTGATGCAATCAAATAATATCCACAATATTAGAAATTTACC GTTTGCAGATAGTTTAACGTATTCGAGTAAGATTACATTTGTTTAAATCTTAA AAATTTAAAATAATTAGGAAGATTTTGTTTTTAAATATTAACGGCTTCTGGTA TTTTTTAGAGCTAGTATATACTTTCGTGGTAGACGTCGCTGGTATTTAAGCCA GTAAGATTCAGCCACACTGACAAAGAAAATATTCGTGAAAAATTCTGCATACG GAAAGAAGAAAATTCGAGCAACAGAAAGCCAACACAATCCACAAAAATGTC TTTATTCGGAGCGTTGATGGGTGATTTCGACGACGATCTCGGCCTTATGAAGT AAGTACCAAATGGCGCAAAAAAAAACTAAATAAATGCGGCTCGCCCGCAG AAGCCCCATATATTTCCATACGTGTGCAGCTAACGAAGCCCTCTTGGGGCGTG GAAAAACAGCCAAATAATCGCAAAACAAGGTGTAAATCATTAATTGGCCCAT AGGCACACAATTAGGCCAATTAAACATATTTACGTGCCCAAAAATTAGCAAT GCGCAGCATGCGTGAAGTGAAGACGTAATAATCGATAATTTGAATCGAGCGA CCGCAGGGAAATGGAATTGGGGAAAATGCACTAGCAGGCGTTATTTCAAAGG TTTCGCCCTGTCACTGGGACTTTTGATAAGGCCCAACCGCAAAGTGACCCATG TAAAGGCAGGCTATCAGACCCTATTTTATGTATATACGTAGGCTACGCTGCCT TTATCACTATACTGCGATATTTGGCCACAAGTCATTTAGTTTGGCTTTGTTTAA AACTTAATTTCGGCTCAGTTTAAAATGAAACAAAAACGTAAAAGCAAATCAA ACCGTTCACAAATGGAGCTCCAGTAACTCGCACATCAGTCAAGTATCACTAA **GTTACTCATCTTTCGTTTGCAG**